Accounting

ACCT 105 Introduction to Accounting 5

This course provides the student with an introductory level understanding of the fundamentals of bookkeeping and accounting. The student is provided the procedures for completing the accounting cycle for both a service entity and a merchandising entity within a single proprietorship. Tech Prep credit available.

1002 01 MTWTh 01:00PM-02:05PM STAFF

ACCT&201 Prin of Accounting I 5

An introduction to the steps in the accounting cycle; accounting for merchandise; the adjusting process--deferrals and accruals; financial statements; cash transactions; receivables, inventories and internal controls. This course is the first in a three-course series designed for all accounting and business majors. Prerequisite: ACCT 105 highly recommended. SE

1012 01 MTWTh 09:15AM-10:20AM MICHIE L

ACCT&202 Prin of Accounting II 5

An introduction to the accounting for fixed assets and depreciation, intangible assets, current liabilities, corporations, partnerships, long-term liabilities, statement of cash flows, and financial statement analysis. This course is the second in a three-course series designed for all accounting and business majors. Prerequisite: ACCT& 201. SE

1016 01 MTWTh 10:30AM-11:35AM MICHIE L

1018 OL1 ARR ARR WILKS P

Online fee is $10.

Agriculture

AGR 263 Soils 5

Lab Fee: $10.00

Introduction to basic concepts of soil science, plant nutrition, and water management. Topics include: soil formation and development, soil structure and composition, physical properties of soils, soils minerals, soil chemistry, soil fertility, soil microorganisms, soil ecology, fertilizers, plant, soil and water relationships and irrigation management.

1136 01H MTWTh 10:30AM-11:35AM BAIR K

Lab F 08:00AM-10:00AM BAIR K

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Online fee is $10.

AGR 272 Sustainable Agriculture and Food Systems 5

Lab Fee: $10.00

Examination of social, economical and ecological consequences of the modern, industrial agriculture paradigm. Topics include history of agriculture, world views,

the sustainability concept, alternative agriculture systems, world food systems, agroecology, ecological economics, biotechnology, local food systems and the geography of hunger.

1146 01H W 11:45AM-01:45PM SACKMANN J

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course.

Anthropology

ANTH&100 Survey of Anthropology 5

Lab Fee: $10.00

An introduction to anthropology with a primary focus on cultural diversity of the human experience. The course surveys four subfields of Anthropology including sociobiology, anthropological linguistics, cultural anthropology, and applied anthropology. Major themes addressed throughout the course include cultural relativity, ethnocentrism, cultural change, the conflict between "foreign" anthropologist and "native" peoples, the role of anthropology in modern society, and anthropology as a "personal lens" of change. Students will complete a two part "field study", become familiar with The HRAF (human relations area file - a major electronic data base in Anthropology), and learn potential applications of becoming an anthropologist. Prerequisite: There are no prerequisites. Strongly recommended placement in MATH 098 or higher and placement in English 099 of higher. SS

1180 OL1 ARR ARR TATE-LIBBY J

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions.

Art

ART& 100 Art Appreciation 5

Lab Fee: $10.00

Art is a visual language which artists use to record and interpret life experiences. The messages artists share are personal and social records. The ability to understand and appreciate visual art is a skill you can develop through observation and study and one you can utilize throughout your life. We will cover a general overview of artists' materials and techniques as well as historical context with lectures, slides, movies, and experiments with art media. Open to all students.HU

1209 OL1 ARR ARR PALKOVIC F

Online fee is $10.

ART 102 Design II 5

Lab Fee: $8.00

An introduction to the study of color theory explored through projects. Design I, II, and III can be taken in any order.HP

1218 01 MTWTh 09:15AM-10:35AM PALKOVIC R

ART 105 Drawing II 5

Lab Fee: $8.00

Drawing II is a continuation in the exploration of drawing with emphasis on technique and interpretation of ideas using various media. You will learn drawing techniques with various media and develop an individual artistic voice by introducing content (meaning or message) into drawings. Drawing I, II, and III can be taken out of sequence. HP

1232 01 MW 01:00PM-03:50PM HAGEL S

ART 121 Ceramics I 2- 5

Lab Fee: $28.00

Experiments and design in clay applied to pottery and sculpture. Work in various hand construction methods, glazing and kiln firing. HP

1238 01 MW 01:00PM-03:50PM PALKOVIC F

ART 122 Ceramics II 2- 5

Lab Fee: $28.00

Ceramics II continues in experiments and design in clay applied to pottery and sculpture by throwing on the pottery wheel, glazing and kiln firing. Prerequisite: ART 121 or instructor permission. HP

1244 01 MW 01:00PM-03:50PM PALKOVIC F

ART 123 Ceramics III 2- 5

Lab Fee: $28.00

Advanced experiments and design in clay applied to pottery and sculpture by working in various hand construction methods and in pottery wheel, glazing and kiln firing. Prerequisite: ART 121, 122 or instructor permission. HP

1248 01 MW 01:00PM-03:50PM PALKOVIC F

ART 217 Western Art:Renaissance to Mid 19th Century 5

A survey of the history of western art and architecture from Renaissance times to the mid nineteenth century. We will explore the art of Leonardo daVinci and Michelangelo to the beginnings of photography in the mid nineteenth century. HU

1264 01 MTWTh 11:45AM-12:50PM PALKOVIC R

ART 230 Painting/Drawing Workshop 5

Lab Fee: $8.00

A workshop class designed to allow experimentation with 2D media such as pencil, charcoal, pastels, watercolor, acrylic paint. Prerequisite: None but studio class such as drawing or painting recommended. HP

1285 01 TTh 01:00PM-03:50PM HAGEL S

ART 231 Oil Painting I 5

Lab Fee: $25.40

Introduction to the materials and techniques of oil painting. Painting from still-life and nature as well as creative composition. HP

1289 01 TTh 01:00PM-03:50PM PALKOVIC R

ART 232 Oil Painting II 5

Lab Fee: $25.40
Advanced oil painting is an emphasis upon the student's artistic growth and the development of his or her own style and voice using oil painting techniques and materials. Prerequisite: ART 231 and 232 or instructor permission. HP

1294 01 TTh 01:00PM-03:50PM PALKOVIC R

ART 233 Oil Painting III 5

Lab Fee: $25.40

Introduction to the materials and techniques of oil painting. Painting from still-life and nature as well as creative composition. Prerequisite: ART 232 HP

1299 01 TTh 01:00PM-03:50PM PALKOVIC R

Automotive Technology

AUT 115 Automotive Shop Safety and Environmental Issues 1

This course covers automotive shop safety rules, procedures, and shop equipment operation and is required before a student is allowed to work in the automotive laboratory. The proper handling, storage, and disposal of automotive related hazardous waste is also covered. Offered as regularly scheduled course during the fall quarter and offered by arrangement for students who enroll in the automotive program any other quarter.

1348 01 ARR ARR MARTIN J

AUT 121 Automotive Electrical and Electronic Systems 15

Lab Fee: $78.75

This comprehensive course covers both theory and operation of the electrical systems in today's high-tech vehicles. Topics covered include D.C. electrical theory, D.C. circuitry, Ohms Law, solid state components, batteries, starting circuits, charging circuits, lighting circuits, vehicle wiring and ignition systems. Emphasis will be placed on using modern electrical test equipment and procedures to diagnose and repair complex electrical systems. This course is designed to prepare the student for the ASE/NATEF Electrical Systems Certification test. Prerequisite: AUT 115

1352 01 MTWTh 09:00AM-03:00PM MARTIN J

AUT 132 Hydraulic Systems 3

Lab Fee: $15.75

This course provides a student with the skills and knowledge necessary to maintain and service various hydraulic power transmission systems. Topics covered include hydraulic fundamentals, system operation, pump, valve and actuator service, as well as seals, lines and hydraulic system components. Prerequisite: AUT 115

1366 01 MTWTh 08:00AM-09:00AM MARTIN J

AUT 190 Projects Laboratory 2

Lab Fee: $10.50

This course is for full-time automotive students who need extra project laboratory time to update or enhance their skills to meet program or certification requirements. Students will be directed to complete ASE/NATEF tasks not completed in the day classes. (May be repeated for credit up to six credits for each course; graded on pass/fail basis). Prerequisite: Concurrent enrollment in first or second year automotive program classes.

1370 21 M 05:30PM-09:15PM MARTIN J

AUT 212 Automatic Transmission Repair 9

Lab Fee: $47.25

This course covers the theory, operation, service, and repair of various automatic transmission and transaxle assemblies. Classroom and laboratory instruction provide in-depth training using modern test equipment in the diagnosis and repair of these complex systems. This course will prepare students for the ASE/NATEF Automatic Transmission Repair Specialists Test. Prerequisite: AUT 115, AUT 121, AUT 131, AUT 132 or instructor approval.

1378 01 MTWTh 09:00AM-12:00PM WYNDER D

AUT 213 Automotive Servicing I 6

Lab Fee: $31.50

Students, at the direction of the instructor, work on customer vehicles applying skills learned in previous automotive classes. Students will be required to complete ASE/NATEF tasks not completed in other courses. Customer relations, repair order preparation, scheduling, estimating, utilization of shop space and equipment, and hazardous waste management are covered to provide students with an understanding of repair shop operations. Prerequisite: Instructor permission or completion of first year automotive classes.

1382 01 MTWTh 01:00PM-04:00PM WYNDER D

AUT 290 Projects Laboratory 2

Lab Fee: $10.50

This course is for full-time automotive students who need extra project laboratory time to update or enhance their skills to meet program or certification requirements. Students will be directed to complete ASE/NATEF tasks not completed in the day classes. (May be repeated for credit up to six credits for each course; graded on pass/fail basis). Prerequisite: Concurrent enrollment in first or second year automotive program classes.

1398 21 T 05:30PM-09:15PM WYNDER D

Aviation Commercial Pilot

AVF 113 Meteorology 5

This course is designed for pilots but it is helpful for the non-aviation major to understand the basics of meteorology. A study in the nature of atmosphere, winds, temperature, moisture, air masses and frontal systems, weather forecasting utilizing charts and reports available from FAA FSS's; incorporates techniques for flying in various weather conditions. Prerequisite: AVF 112 or Chief Pilot approval. NS

1410 21 MW 04:00PM-06:30PM ALTROGGE B

1412 22 TTh 04:00PM-06:30PM GILLESPIE J

AVF 117 Aviation Emergency Preparedness & Response 1

Lab Fee: $25.00

Aviation Emergency Preparedness and Response is intended for Private and Commercial pilots; introduces emergency preparedness, survival, and rescue procedures common to general aviation.

1420 01 Sa 08:00AM-05:00PM STAFF

AVF 141 Private Pilot Flight (Stage 1) 4

Scheduled flight time, ground critique, discussions, and observation time; both dual and solo flights. Instrument flight training is integrated with all phases of flying. Includes simulator time.

1426 01 MTWTh ARR SWEDBURG JM

AVF 142 Private Pilot Flight (Stage 2) 4

Scheduled flight time, ground critique, discussions, and observation time; both dual and solo flights. Instrument flight training is integrated with all phases of flying. Includes simulator time. Prerequisite:
AVF 141

1430 01 MTWTh ARR SWEDBURG JM

AVF 143 Private Pilot Flight (Stage 3) 4

Scheduled flight time, ground critique, discussions and observation time; both dual and solo flights. Instrument flight training is integrated with all phases of flying. Includes simulator time. Prerequisite: AVF 142

1434 01 MTWTh ARR SWEDBURG JM

AVF 190 Flight (Alternate) 1- 4

Provides additional aircraft flight time to allow the student additional time to increase his/her skill or complete a course of study. Includes flight time and follow-up critique. Prerequisite: AVF 141

1438 01 MTWTh ARR SWEDBURG JM

AVF 221 Commercial Pilot Ground School 5

Preparation for the FAA commercial pilot knowledge test. Includes study of applicable FAR's, accident reporting requirements of the NTSB; basic aerodynamics and the principles of flight; meteorology and the use of weather reports and forecasts; safe and efficient operation of aircraft; weight and balance computations; use of

performance charts, performance limitations; use of navigation facilities, ADM judgment and CRM; principles and functions of aircraft systems; maneuvers, procedures and emergency operations; night and high-altitude operations; the National Airspace System. Prerequisite: AVF 113 & AVF 114

1450 21 MW 04:00PM-06:30PM GILLESPIE J

1451 22 TTh 04:00PM-06:30PM STAFF

AVF 251 Commercial Pilot Flight (Stage 4) 4

Scheduled flight time, ground critique, discussion and observation time, dual, solo, cross-country, and instrument. Includes simulator time. Prerequisite: AVF 143

1470 01 MTWTh ARR SWEDBURG JM

AVF 252 Commercial Pilot Flight (Stage 5) 4

Scheduled flight time, ground critique, discussion and observation time; dual, solo, cross-country, instrument, and complex aircraft time. Includes simulator time. Prerequisite: AVF 251

1474 01 MTWTh ARR SWEDBURG JM

AVF 253 Commercial Pilot Flight (Stage 7) 4

Scheduled flight time, ground critique, discussion and observation time; dual, solo, and cross-country time. Includes 28 hours simulator time upon program completion. Prerequisite: AVF 261

1478 01 MTWTh ARR SWEDBURG JM

AVF 254 Night Flying 1

Provides an introduction to night flying and advanced instruction in night navigation, procedures, orientation, landings, takeoffs and techniques necessary for safe operation of airplanes at night. Prerequisite: AVF 142

1482 21 MTWTh ARR SWEDBURG JM

AVF 261 Instrument Flight (Stage 6) 4

Provides training in instrument flight procedures in preparation for the airplane instrument rating; includes simulator training. Prerequisite: AVF 252

1488 01 MTWTh ARR SWEDBURG JM

AVF 270 Flight Instructor 4

Preparation for the Certified Flight Instructor rating; includes flight time and critique. Prerequisite: Commercial license and instrument rating and Chief Pilot approval.

1492 01 ARR ARR SWEDBURG JM

AVF 271 Flight Instructor Instrument - Airplane 2

Provides the Flight Instructor applicant with the knowledge, skill and experience necessary to become an Instrument Instructor; includes flight time and critique.

Prerequisite: Commercial/Instrument license, CFI single engine license and 10 hours as CFI with FII written passed and Chief Pilot approval.

1496 01 MTWTh ARR SWEDBURG JM

AVF 275 Multi-Engine Flight Lab 2

Preparation for the FAA Multi-Engine rating. Prerequisite: Commercial Pilot Certificate and Chief Pilot approval.

1504 01 MTWTh ARR SWEDBURG JM

AVF 276 Simulator Training/Instrument Training .5- 1

Designed to fit the individual and particular needs of each pilot in Instrument Training, refresher or FAA currency requirements. Prerequisite: Instructor approval.

1508 01 MTWTh ARR SWEDBURG JM

AVF 290 Flight (Alternate) 1- 4

Provides additional aircraft flight time to allow the student additional time to increase his/her skill or complete a course of study. Includes flight time and follow-up critique. Prerequisite: AVF 141.

1512 01 MTWTh ARR SWEDBURG JM

AVF 291 Multi-Engine - Instructor 2

Preparation for the FAA Multi-Engine Flight Instructor rating. Prerequisite: Commercial Airplane with Instrument rating, Multi-Engine Land ratings, Flight Instructor Single Engine.

1517 01 MTWTh ARR SWEDBURG JM

Aviation Maintenance

AMT 148 AMT General Electricity 1- 7

This course covers the theory of basic electricity and applied Physics. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval.

1548 01 ARR ARR DANNENBERG K

AMT 149 AMT Airframe Electricity 3

This course covers aircraft electrical systems, electrical generators motors and regulators, aircraft communication and navigation systems. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval

1554 01 ARR ARR BORG C

AMT 150 AMT General 4-16

Lab Fee: $208.00

Variable Credit Lab Fees are calculated at the highest rate

This course will cover aviation applied physics, application of aircraft drawing, function of weight and balance control, operation and cleaning of aircraft,

identification and application of aircraft materials. The use of maintenance forms and publications in the aviation industry. This course is approved under FAA Part 147. Prerequisite: instructor approval.

1558 01 MTWTh ARR DANNENBERG K

AMT 151 Airframe Mechanic I 4-22

Lab Fee: $286.00

Variable Credit Lab Fees are calculated at the highest rate

This course will cover aircraft airframe structures, including wood, fabric and sheet metal, airframe inspection, application of finishes and assembly of fixed wing and rotary wing components and structures, balancing and rigging of airframe structures and components. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval.

1564 01 MTWTh ARR BORG C

AMT 152 Airframe Mechanic II 4-21

Lab Fee: $273.00

Variable Credit Lab Fees are calculated at the highest rate

This course will cover aircraft airframe systems and components. To provide the skills in checking, overhaul, repairs, installation, removal, servicing, inspection, and troubleshooting of landing gear systems, hydraulic and pneumatic power systems, cabin atmosphere control systems, aircraft instruments, communication and navigation system lab, aircraft fuel systems, aircraft electrical systems, position and warning systems, ice and rain control systems, and fire protection systems. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval.

1568 01 MTWTh ARR BORG C

AMT 153 Airframe Mechanic III 4-24

Lab Fee: $312.00

Variable Credit Lab Fees are calculated at the highest rate

As required by the Federal Aviation Administration, the airframe program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a class room environment and 75% of the instruction in a lab environment. AMT 153 is designed to allow students more time to achieve FAA required proficiency levels and to allow students to further their proficiency levels in aviation airframe related studies. This course will cover any area of the FAA required airframe curriculum that the student is deficient in, or if all required competencies have been met, the student may further their proficiency levels in any airframe related area of study. This course is FAA approved under 14 CFR part 147. Prerequisite: AMT 150, 151, 152, MAP 100 and instructor approval.

1574 01 MTWTh ARR BORG C

AMT 249 AMT Powerplant Electricity 2

This course covers the theory of engine electrical systems, electrical generators, alternators, motors and regulators. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval.

1578 01 ARR ARR MOORE D

AMT 251 Powerplant Mechanics I 4-16

Lab Fee: $208.00

Variable Credit Lab Fees are calculated at the highest rate

As required by the Federal Aviation Administration, the Powerplant program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a class room environment and 75% of the instruction in a lab environment. There is approximately 30 hours of extra time at the end of the Powerplant program, which is to be used for make-up time or for further competency enhancement. This course is FAA approved under 14 CFR Part 147.This course will cover two areas:
1.Powerplant theory and maintenance, including the inspection, repair, overhaul, service, troubleshooting, removal, and installation of aircraft reciprocating and turbine engines.
2.Powerplant systems and components, including the inspection, repair, overhaul, service, troubleshooting, removal, and installation of aircraft reciprocating and turbine engine instrument, fire protection, electrical, lubrication, ignition, starting, fuel metering, induction, airflow, cooling, exhaust, propellers, unducted fans, and auxiliary power unit systems. Prerequisite: Instructor permission

1584 01 MTWTh ARR MOORE D

AMT 252 Powerplant Mechanics II 4-14

Lab Fee: $182.00

Variable Credit Lab Fees are calculated at the highest rate

As required by the Federal Aviation Administration, the Powerplant program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a class room environment and 75% of the instruction in a lab environment. There is approximately 30 hours of extra time at the end of the Powerplant program, which is to be used for make-up time or for further competency enhancement. This course is FAA approved under 14 CFR Part 147.This course will cover two areas:
1.Powerplant theory and maintenance, including the inspection, repair, overhaul, service, troubleshooting, removal, and installation of aircraft reciprocating and turbine engines.
2.Powerplant systems and components, including the inspection, repair, overhaul, service, troubleshooting, removal, and installation of aircraft reciprocating and turbine engine instrument, fire protection, electrical, lubrication, ignition, starting, fuel metering, induction, airflow, cooling, exhaust, propellers, unducted fans, and auxiliary power unit systems. Prerequisite: Instructor permission

1588 01 MTWTh ARR MOORE D

AMT 253 Powerplant Mechanics III 4-16

Lab Fee: $208.00

Variable Credit Lab Fees are calculated at the highest rate

As required by the Federal Aviation Administration, the Powerplant program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a class room environment and 75% of the instruction in a lab environment. There is approximately 30 hours of extra time at the end of the Powerplant program, which is to

be used for make-up time or for further competency enhancement. This course is FAA approved under 14 CFR Part 147.This course will cover two areas:
1. Powerplant theory and maintenance, including the inspection, repair, overhaul, service, troubleshooting, removal, and installation of aircraft reciprocating and turbine engines.
2. Powerplant systems and components, including the inspection, repair, overhaul, service, troubleshooting, removal, and installation of aircraft reciprocating and turbine engine instrument, fire protection, electrical, lubrication, ignition, starting, fuel metering, induction, airflow, cooling, exhaust, propellers, unducted fans, and auxiliary power unit systems. Prerequisite: Instructor permission

1594 01 MTWTh ARR MOORE D

AMT 254 Powerplant Mechanic IV 4-16

Lab Fee: $208.00

Variable Credit Lab Fees are calculated at the highest rate

As required by the Federal Aviation Administration, the Powerplant program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a class room environment and 75% of the instruction in a lab environment. AMT 254 is designed to allow students more time to achieve FAA required proficiency levels and to allow students to further their proficiency levels in aviation Powerplant related studies. This course will cover any area of the FAA required Powerplant curriculum that the student is deficient in, or if all required competencies have been met, the student may further their proficiency levels in any Powerplant related area of study. This course is FAA approved under 14 CFR Part 147. Prerequisite: AMT 251, 252, 253 and instructor permission.

1598 01 MTWTh ARR MOORE D

Basic Skills Education

DVS 080 College Transitions Math 1- 4

Review and instruction in whole numbers, decimals, fractions, geometry, and integers. Learn strategies to deal with math anxiety and test taking. Students should note this course does not count towards credit total for financial aid eligibility. Prerequisite: Placement exam or instructor permission. (Formerly: MATH 080)

5306 01H MTWTh 11:45AM-12:50PM STAFF

5307 02H MTWTh 01:00PM-02:05PM STAFF

Biology

BIOL&100 Survey of Biology 5

Lab Fee: $29.60

A study of basic biological principles common to living organisms, this course is intended for non-majors who desire a lab science requirement. Topics of study include: scientific thinking, basic chemistry, cell structure and membrane transport, energy and cell pathways, DNA and gene expression, chromosomes and cell division, genes and inheritance, and evolution and natural selection. Related investigations take place in a required two-hour lab period each week. There will be no required dissections in the laboratory. LS

1600 01 MWTh 08:00AM-09:05AM DUVALL K

Lab T 08:00AM-10:00AM DUVALL K

1602 02 MWTh 11:45AM-12:50PM WHITNEY M

Lab T 11:45AM-01:45PM WHITNEY M

1603 21 TWTh 06:00PM-08:00PM STAFF

BIOL 104 Core Concepts in Biology 2

Lab Fee: $10.00

A review of the biological principles common to living organisms, this course is intended for students planning to take BIOL& 211 who have some prior biology background but would like a review of the basic biology concepts. Topics of study include: basic chemistry, macromolecules, cell structure, membrane transport, energy and metabolism, DNA replication, gene expression, cell division, and genetics. Prerequisite: Any prior biology course, high school or college-level, is highly recommended.

1604 01H MW 01:00PM-02:05PM STAFF

BIOL&170 Human Biology 5

Lab Fee: $10.00

This course offers a broad overview of the human body for the non-science major. Topics of study include unifying biological principles such as basic cell chemistry, cell biology, and metabolism, as well as the biology of selected human systems. Issues related to human biology will also be examined. This course does not include a lab. NS

1605 OL1 ARR ARR STAFF

Students listen to mini lectures of course material, participate in class discussions, & submit assignments & quizzes online. Major tests are proctored at the BBCC Testing Center or an approved alternate location. Online fee is $10.

BIOL&222 Majors Cell/Molecular 5

Lab Fee: $29.60

The second quarter in a three-quarter general biology series, this series is designed for life-science majors, for pre-professional students, and for students intending to take advanced courses in the biological sciences. Topics of study include: structure and function of biological molecules, structure and function of prokaryotic and eukaryotic cells, membrane transport, energetics and cell metabolism, cell communication, chromosome structure and replication, gene expression, cell division, classical genetics, and developmental genetics. Math/Science distribution requirement may not include more than 5 credits from BIOL& 211 and BIOL& 222 although graduation credit can be awarded for both. Related investigations take place in a three-hour lab period each week. NOTE: This majors' biology sequence may be taken in the following order: BIOL& 222, 223, and 221, with instructor's permission. Prerequisite: Successful completion of BIOL& 221 with a 2.0 or better and successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better, or instructor's permission. NOTE: Students taking only BIOL& 222 as an alternative to BIOL& 211 must have instructor permission and may satisfy the CHEM& 121 prerequisite with recent high school chemistry with a B or better.LS

1620 01 MWTh 09:15AM-10:20AM DUVALL K

Lab T 02:15PM-05:15PM DUVALL K

BIOL&241 Human A & P 1 5

Lab Fee: $29.60

An analysis of the structure and function of human skeletal, muscular, nervous and endocrine systems as well as the role of receptor-ligand interactions and introductory histology. Emphasis will be given to the homeostatic relationships between systems. Four hours of lab per week will be devoted to hands-on experience with required cat dissection as well as computer analysis of muscle physiology. Tissue slides, models and skeletons will be utilized. Lab is required for credit. Prerequisite(s): Students may qualify for BIOL& 241 in any one of the following ways: 1) a grade of 2.0 or better in BIOL& 211 or BIOL& 222 and in CHEM& 121 or above, or a transcript from another college for those classes 2) a year of high school Anatomy and Physiology and Chemistry within the last 2 years with a grade of B or better. 3) a score of 3 or better in Advanced Placement Biology AND a year of high school Chemistry within the last 2 years with a B or better OR INSTRUCTORS PERMISSION

1630 01 MW 01:00PM-02:15PM JACOBS B

Lab MW 02:30PM-04:30PM JACOBS B

1632 02 MW 01:00PM-02:15PM JACOBS B

Lab TTh 01:00PM-03:00PM JACOBS B

1634 03H ARR ARR JACOBS B

Lab MW 02:30PM-04:30PM JACOBS B

Section 03H incorporates both traditional class time and a distance education component. Students attend weekly laboratory sessions and take tests on campus; class lectures and assignments are accessed online. Online fee is $10.

1635 04H ARR ARR JACOBS B

Lab TTh 01:00PM-03:00PM JACOBS B

Section 04H incorporates both traditional class time and a distance education component. Students attend weekly laboratory sessions and take tests on campus; class lectures and assignments are accessed online.

BIOL&242 Human A & P 2 5

Lab Fee: $29.60

The second quarter of a two-quarter sequence. Includes the structure, function and pathology of the cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Emphasis will be given to the homeostatic relationships between systems. Four hours of lab per week will be devoted to human autopsy slides, required hands-on experience with cat and organ dissection and experimental procedures in cardiovascular function as well as computer analysis of renal function. Lab is required for credit. Prerequisite(s): A minimum grade of 2.0 in BIOL&241 or equivalent. LS

1636 01 MW 09:15AM-10:30AM JACOBS B

Lab TTh 09:15AM-11:15AM JACOBS B

1638 02H ARR ARR JACOBS B

Lab TTh 09:15AM-11:15AM JACOBS B

Section 02H incorporates both traditional class time and a distance education component. Students attend weekly laboratory sessions and take tests on campus; class lectures and assignments are accessed online.

Botany

BOT 130 Botany 5

Lab Fee: $29.60

A study of the basic principles of plant life. Topics include: plant cells, tissues, and organs; plant physiology, transport, and reproduction; plant diversity and genetics, as well as a look at how society uses and relies on plants. Related investigations take place during two hours of lab each week. Laboratory topics reinforce classroom learning and include a study of plant structures and plant diversity. A greenhouse is available for class use during student plant propagation projects.LS

1660 01 MTW 11:45AM-12:50PM DUVALL K

Lab Th 10:50AM-12:50PM DUVALL K

Business

BUS& 101 Intro to Business 5

An introductory analysis of the business world including aspects of finance, industrial stocks and bonds, commodities and foreign exchange, unions and the labor movement, managerial control, decision making and personnel relations. SE

1702 01 MTWTh 08:00AM-09:05AM MICHIE L

BUS 120 Human Relations on the Job 4

Practical application oriented study of interpersonal skills and attitudes necessary to work with others. Topics included are: maintaining professionalism, adapting/coping with change and stress, work ethics, motivation, conflict resolution, team work and customer relations. Prerequisite: Placement in ENGL 099 or above.

1722 01 MTWTh 08:00AM-08:50AM STAFF

1724 OL1 ARR ARR STAFF

Online fee is $10.

BUS 121 Business English 5

This course is designed to prepare students for today's offices where clear and concise writing is based on a sound understanding of grammar and is considered to be an essential job skill. Prerequisite: BBCC English placement exam ENGL099 or successful completion of ENGL098 with a 2.0 or higher.

1728 01 MTWTh 10:30AM-11:35AM STAFF

1729 02 MTWTh 10:30AM-11:35AM STAFF

Permission required.

BUS 161 Business Calculators 2

Lab Fee: $10.20

Touch control training on the ten-key electronic display/printing calculator. Basic functions; development of proficiency with proration, percentage, interest, discount, present value, and profit computations. Prerequisite: Successful completion of MATH 094 or placement score into MATH 098 or above.

1750 01 MTWTh 11:45AM-12:35PM WILKS P

BUS 200 Supervision 5

The student will look at management in organizations and the information, tools, qualities, and skills needed to successfully manage others while fostering a positive work environment and contributing to organizational success. Prerequisite: BUS 120

1768 01 TTh 01:00PM-03:10PM WILLINGHAM T

BUS& 201 Business Law 5

This course provides an introduction to the nature and sources of law and overview of law typically relating to the operation of businesses from the point of view of owners, managers, employees, customers, and suppliers with an emphasis on contracts and sales.SE

1772 01 MTWTh 02:15PM-03:20PM MICHIE L

Business Information Management

BIM 101 Basic Keyboarding 1- 2

Lab Fee: $18.80

Variable Credit Lab Fees are calculated at the highest rate

This course gives emphasis to learning the keyboard; namely, the alphabet, numbers, and symbols. This course is designed for the individual who has never taken a keyboarding class, who may want to renew keyboarding skills, or who wants to change keyboarding habits.

1795 01H MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

1796 02H MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 102 Document Formatting 1- 4

Lab Fee: $37.60

Variable Credit Lab Fees are calculated at the highest rate

This course gives primary emphasis to the formatting of business documents using Microsoft Word 2016. Prerequisite: BIM 101 or Basic Keyboarding Skills.

1802 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information.

BIM 103 The Administrative Professional 2

Lab Fee: $28.80

This course is an introduction to the administrative professional career.

1806 01 MW 01:00PM-02:05PM DUVALL R

BIM 104 Intermediate Keyboarding 1- 3

Lab Fee: $28.20

Variable Credit Lab Fees are calculated at the highest rate
This course gives emphasis to improving keyboarding speed and accuracy. Prerequisite: BIM 101/Basic Keyboarding Skills

1814 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information.

1815 02 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information. Permission required.

BIM 106 Advanced Keyboarding 1- 3

Lab Fee: $28.20

Variable Credit Lab Fees are calculated at the highest rate

This course gives emphasis to improving keyboarding speed and accuracy. Prerequisite(s): BIM 104

1817 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information.

BIM 107 Intro to the Medical Office 2

The course will cover the basic job skills and requirements needed to work in a medical office, making appointments, and referrals, HIPAA laws, retrieving billing and coding information, handling patient concerns and questions, proper telephone and collection techniques, managing health records and patient requirements for medical business office personnel. Prerequisite: HED 119 or instructor permission (Formerly: BIM 116)

1820 21 T 06:00PM-08:00PM STAFF

BIM 109 Internet Communications 1- 2

Lab Fee: $18.80

Variable Credit Lab Fees are calculated at the highest rate

This course will introduce the functions of Outlook 2016 and other online communications and the fundamental use and sharing of online documents and data.

1823 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information.

1824 02H MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information.

BIM 110 Microsoft Office Essentials 1- 3

Lab Fee: $28.20

Variable Credit Lab Fees are calculated at the highest rate

This course is an introduction to Microsoft Office Suite 2013. This course is not intended for Business Information Management majors. Credit cannot be earned in both BIM 110 and BIM 108.

1826 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information. Instructor permission required.

BIM 111 Introduction to Computers in the Medical Office 1- 3

Lab Fee: $28.20

Variable Credit Lab Fees are calculated at the highest rate

This course covers the general flow of information in a medical office and the role that computers play. Students will learn how to use medical office software for activities such as entering data, billing, filing claims, scheduling, and printing reports. Prerequisite: basic computer skills.

1828 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 112 Proof & Edit 1- 3

Lab Fee: $28.20

Variable Credit Lab Fees are calculated at the highest rate

This course gives students the opportunity to learn different proofreading techniques and then emphasizes practice using those techniques. Prerequisite: BUS 121, BIM 102.

1830 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 130 Filing 1- 2

Lab Fee: $18.80

Variable Credit Lab Fees are calculated at the highest rate

This course introduces basic filing rules for alphabetic, numeric, subject, and geographic filing.

1850 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 173 Word Processing I 1- 5

Lab Fee: $47.00

Variable Credit Lab Fees are calculated at the highest rate

This course is an in-depth introduction to Microsoft Word. The focus is to learn functions of Word 2016, to apply these functions to business situations, and begin preparing students for the Microsoft Office Specialist exam. Tech Prep credit available. Prerequisite: BIM102 or instructor permission

1860 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 177 Office Information Management Lab 1- 6

Lab Fee: $56.40

Variable Credit Lab Fees are calculated at the highest rate

This course allows individual study in one of the business information management subject areas. Study and credit hours determined at the time of enrollment by the instructor. Prerequisite: Instructor Permission.

1866 01 MTWTh ARR DUVALL R

See your Canvas class site for information.

BIM 180 Introduction to Microsoft Office 1- 5

Lab Fee: $47.00

Variable Credit Lab Fees are calculated at the highest rate

This course is an introduction to the basic functions of Microsoft Office 2016 - Word, Excel, Access, PowerPoint, and Integration. This course is intended for Business Information Management and Accounting students. Prerequisite: BIM102 and successful completion of MATH094 or BBCC Placement Exam into MATH 098 or higher.

1870 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 181 Introduction to Microsoft Office: Word 1- 3

Lab Fee: $38.20
Variable Credit Lab Fees are calculated at the highest rate

This course provides an introduction to Microsoft Word 2016. It is not intended for Business Information Management Program students.

1876 01H MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 182 Introduction to Microsoft Office: Excel 1- 3

Lab Fee: $38.20

Variable Credit Lab Fees are calculated at the highest rate

This course provides an introduction to Microsoft Excel. It is not intended for Business Information Management Program students. Prerequisite: Successful completion of MATH94 or BBCC placement exam into MATH098 or higher.

1881 01H MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 183 Introduction to Microsoft Office: Access 1- 3

Lab Fee: $38.20

Variable Credit Lab Fees are calculated at the highest rate

This course provides an introduction to Microsoft Access 2016. It is not intended for Business Information Management Program students.

1886 01H MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 184 Introduction to Microsoft Office: PowerPoint 1- 3

Lab Fee: $38.20

Variable Credit Lab Fees are calculated at the highest rate

This course provides an introduction to Microsoft PowerPoint 2016. It is not intended for Business Information Management Program students.

1891 01H MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 190 Spreadsheets I 1- 5

Lab Fee: $47.00

Variable Credit Lab Fees are calculated at the highest rate

This course is an in-depth introduction to Microsoft Excel 2016. The focus is to learn functions of Excel, to apply this knowledge to business situations, and to begin preparing students for the Microsoft Office Specialist Expert exams. Prerequisite: Successful completion of BUS102-Business Mathematics, or successful completion of MATH 094 or BBCC Placement Exam into MATH 098 or higher.

1900 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 194 Presentations 1- 5

Lab Fee: $47.00

Variable Credit Lab Fees are calculated at the highest rate

This is an in-depth Microsoft PowerPoint 2013 course. The focus of this course is to learn presentation functions, to apply this material to business situations, and to prepare students for the MOS Expert Exam.

1905 01 ARR ARR STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 198 Special Topics 1- 2

Lab Fee: $18.80

Variable Credit Lab Fees are calculated at the highest rate

This course provides individual study in one of the office information technology subject areas. Study and credit hours determined at the time of enrollment by the instructor. Prerequisite: Instructor permission.

1916 01 MTWTh ARR DUVALL R

See your Canvas class site for information.

BIM 210 Internet 1- 2

Lab Fee: $28.80

Variable Credit Lab Fees are calculated at the highest rate

This course is an introduction to the Internet, web browsers, search engines, and search techniques.

1921 01H MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

1922 02H MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 280 Advanced Microsoft Office 1- 5

Lab Fee: $47.00

Variable Credit Lab Fees are calculated at the highest rate

This course is a continuation from BIM180 and introduces the advanced features and integration capabilities of Microsoft Office 2013. This course consists of five modules--Word, Excel, Access, PowerPoint, and Integration. Prerequisite: BIM180

1942 01 MTWTh ARR DUVALL R

This is not an online course; it is a self-paced course. See your Canvas class site for information.

BIM 285 MOS Prep & Certification 1- 5

Lab Fee: $47.00

Variable Credit Lab Fees are calculated at the highest rate

This course is intended for students taking the MOS (Microsoft Office Specialist) certification exams. This course consists of five modules--Word, Excel, Access, PowerPoint, and Outlook. Students will review Microsoft Office 2016 features and complete a certified MOS exam at the end of each module. Prerequisite: BIM 280 or instructor permission

1944 01 MTWTh ARR STAFF

Chemistry

CHEM&105 Chemical Concepts 5

This course is intended for non-science majors. The focus is on fundamental topics of chemistry such as; atoms and molecules, periodic table, organic chemistry, biochemistry, and radioactivity as they relate to current society. This class is intended to increase scientific literacy in non-science majors. This class can also provide some preparation for students with a limited chemistry background planning to continue on to CHEM& 121. Prerequisite: Passing grade in MATH 094 or placement in MATH 098. NS

1950 01 MTWTh 09:15AM-10:20AM GROCE L

CHEM&121 Intro to Chemistry 5

Lab Fee: $29.60

This course is designed for the allied health students. In addition, this class serves students wanting an introductory chemistry course prior to the full year CHEM& 161, 162, 163 sequence. Topics include basic chemical vocabulary, atomic structure, stoichiometry, periodic behavior of elements and compounds, gases, liquids, solids, solutions, water and equilibria. The course includes 22 hours of laboratory. Laboratory exercises are designed to reinforce classroom learning as well as providing hands on experience with chemical reactions. Relevance of course material to current practices in chemistry is a fundamental focus. Prerequisite: Passing grade in Math 098

or placement in Math 099. A passing grade in High School Chemistry or completion of CHEM& 105 is recommended.

1967	01	MWTh	10:30AM-11:35AM	PETERSON J
Lab		T	10:30AM-12:30PM	PETERSON J
1969	02	MWTh	01:00PM-02:05PM	STAFF
Lab		T	01:00PM-03:00PM	STAFF
1970	03	MWTh	02:15PM-03:20PM	STAFF
Lab		T	03:30PM-05:30PM	STAFF

CHEM&131 Intro to Organic/Biochem 5

Lab Fee: $29.60

This course is designed for Allied Health transfer students and for students wanting an introductory organic chemistry course in preparation for a complete organic chemistry sequence at a baccalaureate institution. Topics include an introduction to alkanes, alkenes and alkynes, an exploration of common functional groups, and organic nomenclature. The course also explores the relationship of organic compounds such as carbohydrates, lipids, proteins, and enzymes with the human body. CHEM& 131 includes 25-30 hours of laboratory. Laboratory exercises are designed to reinforce classroom learning as well as providing hands on experience with chemical reactions. Prerequisite: A grade of 2.0 or above in CHEM& 121 or instructor permission. LS

1975	01	MTW	09:15AM-10:20AM	PETERSON J
Lab		Th	08:00AM-10:20AM	PETERSON J

CHEM&162 General Chem w/Lab II 5

Lab Fee: $29.60

The second in a three-quarter series examining the principles of General Chemistry with the primary emphasis on inorganic chemistry. Topics include: Chemical equilibrium, gas laws, molecular geometry, introduction to solution chemistry (acids and bases, precipitation reactions, redox chemistry), reaction rates and states of matter. Relevance of course material to current practices in chemistry is a fundamental focus. Prerequisite: Successful completion of CHEM& 161 or instructor's permission. (LS)(W)

1991	01	MTTh	11:45AM-12:50PM	GROCE L
Lab		W	11:45AM-02:45PM	GROCE L
1993	02	MTTh	01:00PM-02:05PM	GROCE L
Lab		W	03:00PM-06:00PM	GROCE L

College Success Skills

CSS 100 College Survival Skills 3

CSS 100 helps students become more effective learners and achieve their goals at Big Bend. National studies show that students who take courses like CSS 100 are more likely to stay in college and graduate than students who do not. CSS 100 teaches

students skills that research has identified as essential to college success. CSS 100 adds to or builds on the skills students already have as students debate the purpose of college, practice reading and studying techniques, engage in critical thinking, and explore the many resources Big Bend offers to help them succeed.

2016 01 MTW 09:15AM-10:05AM WORKMAN J

2018 02 MTW 10:30AM-11:20AM WORKMAN J

2019 03 MTW 01:00PM-01:50PM WADE V

2020 21 TTh 07:30PM-08:45PM STAFF

2022 OL1 ARR ARR STAFF

Online fee is $10.

CSS 106 College Reading Strategies 2

Lab Fee: $10.00

College Reading Strategies emphasizes the development of the critical reading and thinking skills (analysis, synthesis, and evaluation) needed for courses in the humanities, social sciences, and sciences. Presents active reading strategies, study reading techniques, and vocabulary building skills.

2050 01H TTh 01:00PM-02:05PM ERNETTE D

Start & end date: 01/17/17 to 03/02/17

2052 21H W 05:00PM-07:10PM ERNETTE D

Start & end date: 01/18/17 to 03/01/17

CSS 102 Focus on Success 3

Lab Fee: $10.00

Students will explore many of the non-academic factors that affect success in college. Students will study self-awareness and the practical application of research to the following areas: career and college course choices; relationships; diversity; values; stress management; substance use; sexual decisions; financial literacy, and diet and exercise. In addition, students will develop basic computer literacy as they explore the non-academic factors through computer use, word processing operations, email, and use of the Internet.

2056 OL1 ARR ARR HAMMOND D

Online fee is $10.

CSS 105 Introduction to Healthcare Studies 3

Lab Fee: $10.00

This course provides the foundation for understanding the educational responsibilities of choosing a career in the healthcare field. Students will identify the scope of education and practice of various members of the healthcare profession in order to develop an educational and career plan. Additional key topics include test-taking preparation, critical thinking, leadership skills, communication styles, ethical decision making, note-taking and study tactics, and accessing reference sources.

2065 01H W 10:30AM-11:30AM ELLIOTT A

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Online fee is $10.

Commercial Driver's License

CDL 100 Commercial Driver's License (CDL) 17

Lab Fee: $2918.44

This course provides classroom study, driving instruction, and experience to prepare students for the State of Washington Commercial Driver's License (CDL) Class A exam and entry-level employment as a truck driver with no airbrake restrictions and endorsements for doubles and triples, tankers and hazardous material. Prerequisite: Completed Commercial Driver's License (CDL) Program Application with supporting documents

2070 01 DAILY 07:30AM-04:00PM GARZA G

For application contact Guillermo Garza at 793.2221 or Julia Gamboa at 793.2045.

Communications

CMST 100 Human Communications 4

This course will provide students with applied communication skills. Students will learn practical application of small group presentations, conflict resolution and increased confidence in personal communication skills. Exemplifying self-concept, perception, verbal and non-verbal attributes and attitudes experienced between family, friends, and employment relationships.

2181 01 MTWTh 08:00AM-08:50AM STAFF

CMST&102 Intro to Mass Media 5

Lab Fee: $10.00

Provides an overview and survey of mass communications media, including history, organization, operation and control, theory, analysis, social functions, and new technology. Emphasis is on study of newspapers, radio, television, magazines, books, films, recording, and emerging mass media and their function and role in today's world. HU

2184 OL1 ARR ARR VALDEZ R

Online fee is $10.

CMST&210 Interpersonal Communications 5

This course examines the theory and practice of interpersonal communication from a variety of perspectives, with the goal of improving personal and work relationships. Students learn awareness of the variety of choices they have available to them in communicating. They then develop strategies toward understanding and responding to any cultural or ideological barriers which impede effective communication.HU

2186 01 MTWTh 08:00AM-09:05AM CLOSE S

CMST&220 Public Speaking 5

Provides an introduction to the fundamental process of speaking to the public. It is designed to help students develop skills in communication and to acquire an understanding of oral communication as a vital human relations factor in society. HU

2188 01 MTWTh 09:15AM-10:20AM POTH M

2190 02 MTWTh 09:15AM-10:20AM JACKSON K

2191 03 MTWTh 10:30AM-11:35AM POTH M

2192 04H M 01:00PM-03:30PM POTH MITCH

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Class meets on campus 1/9, 1/30, 2/6, 2/27, and 3/13.

2196 21H M 06:00PM-08:30PM POTH MITCH

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Class meets on campus 1/9, 1/30, 2/6, 2/27, and 3/13.

Computer Science

CS 101 Intro to Computer Science 3

Lab Fee: $34.90

An introduction to computer science concepts and the role of computers in society. Topics include the history of computing, computer hardware, operating systems, the Internet, database management, an overview of programming languages, careers in computer technology, and the ethics of computing. This course is designed for Computer Science majors, and will emphasize principles and underlying computer technology concepts. Note: This course's learner outcomes align to the common IT course, IT 110: Introduction to Information Technology, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college.SE

2105 21H W 05:00PM-05:50PM NEUFVILLE M

This is a hybrid class that incorporates traditional class time & a distance education component. Class meets each Wednesday and the remainder of the class is delivered online. Students must have access to a reliable internet connection. Online fee is $10.

CS 115 Intro to Database Design & Management 5

Lab Fee: $41.50

This course will examine the theory of database design and management, including how collections of data are organized, stored, and analyzed. Topics include the fundamentals of the relational model, Structured Query Language (SQL), data modeling, database design and administration, and web database processing. Introductory business and financial services applications will be used to illustrate course concepts through lectures and hands-on labs. Note: This course's learner outcomes align to the common IT course, IT 114: Database Design & Implementation, and is accepted as a transfer course with participating Washington State community and

technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college.

2135 01 MTWTh 02:15PM-03:20PM WANNER A

CS& 131 Computer Science I C++ 5

Lab Fee: $41.50

An introduction to computer programming design and development with a primary focus on data structures and abstraction using the C++ object-oriented programming language. Topics include logical problem-solving, algorithm development, and programming basics, including an understanding of pointers, dynamic memory allocation, and data structures such as linked lists. Note: This course's learner outcomes align to the common IT course, IT 111&: Programming I, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college. Prerequisite: MATH& 141 or concurrent enrollment SE

2141 01 MTWTh 01:00PM-02:05PM WANNER A

CS 132 Advanced Programming with C++ 5

Lab Fee: $41.50

This course expands on the fundamentals covered in CS& 131. Students will develop intermediate C++ programs for both traditional data processing and object-oriented applications. Through the experience of creating these programs and methods the student will learn advanced features of C++ object-oriented programming to solve problems in various domains. Note: This course's learner outcomes align to the common IT course, IT 112: Programming II, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college. Prerequisite: CS& 131 SE

2143 01 MTWTh 01:00PM-02:05PM WANNER A

CS 156 Cisco Networking:Introduction to Networks 5

Lab Fee: $41.50

Introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced. Students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. This is the first of two courses comprising the Cisco CCENT certification and covers the technical knowledge and skills required to take the Cisco ICND1 exam. Prerequisite: CS 104 and CS 105

2160 21 TTh 05:00PM-08:00PM GUZMAN NOE

CS 158 Cisco Networking:Scaling Networks 5

Lab Fee: $41.50

Describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP,

and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. Prerequisite: CS 157

2162 21 TTh 05:00PM-08:00PM GUZMAN NOE

CS 161 Intro to Website Design and Publishing 5

Lab Fee: $41.50

This course covers the technical knowledge and skills needed to design and publish a web site. Students create web pages with the latest standards of XHTML, HTML5, and Cascading Style Sheets (CSS) with an emphasis on coding web pages that work in both current and future browsers. Topics include web design principles, website development, web authoring standards, configuring images and multimedia on web pages, and website publishing.

2167 01 MTWTh 03:30PM-04:35PM WANNER A

CS 195 Internship: Work Based Learning 1- 4

Students will participate in a supervised internship with regional computer and information technology employers. Students will acquire industry work experience that validates employability skills. Course may be repeated up to a maximum of 4 credits. Prerequisite: Enrollment in Computer Science program, instructor permission, and concurrent enrollment in CS 197.

2171 01 ARR ARR STAFF

CS 197 Internship: Work Based Learning Seminar 1

Students participating in internships share feedback and discussion to integrate work-based learning experiences with classroom instruction. Students are expected to participate in class discussions and develop a computer science career-based employment resume. Prerequisite: Concurrent enrollment in CS 195.

2172 01 ARR ARR STAFF

CS 205 Windows Server Admin 5

Lab Fee: $51.50

This course focuses on Windows Server Administration. Topics include the communication, design and implementation of the Active Directory, DNS, Group Policy Objects, disaster recovery, configuring the web server, security, and working knowledge of Microsoft Exchange. Prerequisites: CS 105 and CS 110, or instructor permission

2175 21H W 07:05PM-09:25PM BETZING P

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course.
Online fee is $10.

CS 207 Introduction to Security Administration 5

Lab Fee: $51.50
This course builds on prior course work in computer hardware, operating systems, and networks. Students will acquire the specific skills required to implement basic security services on any type of computer network and be prepared to take the CompTIA Security+ exam. Prerequisite: CS 105 and CS 110, or instructor permission

2176 21H W 04:40PM-07:00PM WANNER A

This is a hybrid class that incorporates traditional class time & a distance education component. Class meets each Wednesday and the remainder of the class is delivered online. Students must have access to a reliable internet connection. Online fee is $10.

CS 262 Programming Dynamic Websites 5

Lab Fee: $41.50

This course covers dynamic web programming to build interactive, database driven websites. Students gain experience using core open source technologies: PHP MySQL, JavaScript, and CSS, to add power and functionality to Web sites. A major emphasis of the course is using PHP and MySQL to build, manipulate, and create output from a database to a web page. Prerequisites: CS 115 and CS 161

2178 01 MTWTh 03:30PM-04:35PM WANNER A

CS 265 Web Applications Design & Development 5

Lab Fee: $41.50

Students acquire the knowledge and skills to design and develop dynamic web applications. Using ASP.NET and Ajax, students design, create, and test web pages, create a web interface to a database, and build applications for the web and mobile devices. Prerequisite: CS 111 or CS 251 and CS 161

2179 01 MTWTh 03:30PM-04:35PM WANNER A

Criminal Justice

CJ& 101 Intro Criminal Justice 5

Lab Fee: $10.00

This course provides an overview of crime and the criminal justice system including the historical development of the system and a discussion of sociological theory. The course examines the extent and character of crime by examining current and past philosophies that our society uses to deal with crime and criminals. Emphasis is placed on how the various systems interrelate and interact to attain the goal of an orderly and non-discriminatory delivery of crime related public services. SS

2205 21H MW 06:00PM-08:20PM WAHL S

Section 21H incorporates traditional class time & a distance-education component. Typically the class will only meet one day per week with the other day watching lectures & completing assignments. Attend the first day of scheduled class for more information.

2206 OL1 ARR ARR POPLAWSKI N

For section OL1, all coursework for this class will be completed online. Students need to have access to a reliable Internet connection. Check your Big Bend email the week before classes for further course instructions. Online fee is $10.

CJ 209 Police Psychology 5

This course introduces theories of perception, emotion, motivation, personality and nonverbal communication used as tools by police officers in everyday contacts. Understanding behavior and predicting human behavior in common police situations are emphasized. Police family and personal mental health is also covered. Prerequisite: PSYC& 100

2222 01 MTWTh 09:15AM-10:20AM LEONARD R

Early Childhood Education

ECED&107 Health/Safety/Nutrition 5

Lab Fee: $10.00

Develop knowledge and skills to ensure good health, nutrition, and safety of children in group care and education programs. Recognize the signs of abuse and neglect, responsibilities for mandated reporting, and available community resources.

2273 21H M 06:00PM-08:00PM PROVOST R

Students in ECED& 107 will be taught using the I-BEST model of instruction. Two faculty will be co-teaching the class. One faculty member focuses on professional technical skills while the other focuses on basic & study skills. Pre and post CASAS testing required.

ECED&120 Practicum-Nurturing Rel 2

Lab Fee: $12.00

This course will provide students an opportunity to apply best practice for engaging in nurturing relationships with children in an early learning setting. Focus on keeping children healthy and safe while promoting growth and development. Students will be required to observe children infancy to age eight in an educational setting for three hours per week throughout the quarter. Prerequisite: ECED& 105 and instructor permission.

2278 21H T 04:00PM-06:00PM NIGHSWONGER

Permission required. Contact Jenny Nighswonger at 793.2216. Students are required to pass a WSP background check, obtain liability insurance & provide results of a negative Tuberculin skin test prior to registering for this course. Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Check your Big Bend email the week before classes for log-in information and further course instructions.

ECED&132 Infant/Toddlers Care 3

Lab Fee: $10.00

Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care.

2282 OL1 ARR ARR MCLEAN C

Students need to have access to a reliable computer and Internet connection as this course is delivered all online. Check your Big Bend email the week before classes for log-in information and further course instructions. Online fee is $10.

Economics

ECON 200 Introduction to Economics 5

Lab Fee: $10.00

Overview of the basic principles of the American economy to include supply and demand, money and banking, international trade, GDP, inflation, unemployment, and analysis of the market system. Strongly recommend placement in MATH095 or higher and placement in ENGL 099 or higher. THIS IS NOT A SUBSTITUTE FOR ECON& 201 OR 202. SS

2316 OL1 ARR ARR STAFF

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions. SS

ECON&202 Macro Economics 5

Introduction to the principles of Macro Economics including unemployment, inflation, aggregate demand/supply, Classical and Keynesian Theories, fiscal and monetary policy tools, money and banking, and current economic problems. Strongly recommend placement in MATH 098 or higher and placement in ENGL 099 or higher. SS

2325 01 MTWTh 08:00AM-09:05AM PYLE T

2326 OL1 ARR ARR PYLE T

Online fee is $10.

Education

EDUC&202 Intro to Education 5

Lab Fee: $10.00

This is a survey course in the history, philosophy, and principles of education. This course examines current issues and trends in American education. Students are given the opportunity to explore the variety of occupations available in their specialty or interest area within the realm of Pre-K to 12th grade education. Credit cannot be earned in both EDUC&201 and EDUC&202. Prerequisite: Successful completion of ENGL 099 or placement in ENGL& 101(Formerly : EDUC& 201)

2400 OL1 ARR ARR PROVOST R

Students need to have access to a reliable computer and Internet connection as this course is delivered all online. Check your Big Bend email the week before classes for log-in information and further course instructions. Online fee is $10.

EDUC 190 Classroom Experience 3

Lab Fee: $22.50

This course will provide students with the opportunity to gain practical, hands-on experience working with children infancy to age eight in a variety of educational settings and to reflect on the experiences. Students will be required to assist a classroom teacher for six hours per week throughout the quarter. Can be repeated up to nine credits. (Prior to registering for this course, students must be cleared through the National Sex Offender Registry system, provide results of a negative Tuberculin skin test within the last year and obtain WEA liability insurance. Upon placement,

students must pass a background check with their hosting agency). Prerequisite: ECED& 120 or EDUC& 201 or instructor permission.

2414 21H M 04:00PM-06:00PM NIGHSWONGER

Permission required. Contact Jenny Nighswonger at 793.2216. Students are required to pass a WSP background check, obtain liability insurance & provide results of a negative Tuberculin skin test prior to registering for this course. Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Check your Big Bend email the week before classes for log-in information and further course instructions.

EDUC&204 Exceptional Child 5

Lab Fee: $10.00

This course introduces students to various categories of disabilities, legal and historical foundations for special education services, as well as opportunities to design and access educational resources for exceptional children within a community of collaboration and inclusion. SE

2424 21H Th 06:00PM-08:00PM STAFF

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Check your Big Bend email the week before classes for log-in information and further course instructions.

Engineering

ENGR 110 Introduction to Science and Engineering 3

Lab Fee: $60.00

Students in this course will investigate careers in science and engineering, and will research the educational pathways to those careers. In addition, students will learn techniques for becoming a successful student in science and engineering majors.(FORMERLY EGR 111)

2455 01H TTh 11:45AM-12:50PM STAFF

ENGR&111 Engineering Graphics I 5

Lab Fee: $60.00

This course studies the principles of mechanical drawings: geometric construction, orthographic projection, sectional views, auxiliary views, isometric and oblique drawings, dimensions, threads, fasteners, and lettering using AutoCad software. This software is used by engineers to communicate proposed designs and new ideas. (FORMERLY: ENGR 160)

2457 21H TTh 06:00PM-08:00PM GARCIA R

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Online fee is $10.

ENGR&112 Engineering Graphics II 5

Lab Fee: $100.00

This course uses computer software to draft parametric models in three dimensions using Solidworks software. This course covers file management methods, rapid prototyping, and 2D drawing development techniques.(Formerly: ENGR 265)SE

2460 21H MW 06:00PM-08:00PM UTTER M

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Online fee is $10.

ENGR 202 Design of Logic Circuits 5

Lab Fee: $10.00

This course introduces students to methods, skills and theoretical knowledge needed to design, simulate, and build combinational logic circuits and basic sequential circuits. Using industry relevant CAD tools and design technologies, students will learn through homework and projects to design and implement a collection of combinational and sequential circuits. Upon completion, students will apply the same tools prevalent in industry and their transferrable skills to many applications today.Prequisite:MATH& 141 with grades of 2.0 or higher, and one of the following: CS 111 or CS& 131 or CS&141, or instructor permission. SE

2466 01H ARR 02:15PM-04:15PM STAFF

Section OL1: All course work for this class will be completed online. Students need to have access to a reliable internet connection. Online fee is $10.

ENGR&225 Mechanics of Materials 5

Lab Fee: $10.00

An introduction to the concepts of stress, strain, deformation, and failure theory in solid materials. Applies mechanics of materials concepts to structural and machine elements such as rods, shafts, and beams. These elements are analyzed in tension, compression, bending, torsion, and shear. Prerequisite: ENGR& 214, MATH& 152 with grades of 2.0 or higher (formerly EGR 214)NS

2476 OL1 ARR ARR STAFF

Section OL1: All course work for this class will be completed online. Students need to have access to a reliable internet connection. Online fee is $10.

English

ENGL 010 English Lab 0

Community Ed Fee: $48.00

Allows non-BBCC student access to tutors in the English Lab.

2500 01 DAILY ARR SHUTTL'TH K

ENGL 065 Spelling Improvement 2

Lab Fee: $8.40

With a self-paced approach, the student will practice commonly misspelled words that account for 97% of spelling errors by a combination of the whole-word method and learning the rules and exceptions of the English spelling system.

2502 01 MTWTh 08:00AM-09:05AM SHUTTL'TH K

2503 02 MTWTh 11:45AM-12:50PM SHUTTL'TH K

2504 03 MTWTh 02:15PM-03:20PM SHUTTL'TH K

ENGL 087 Reading Improvement 3

Lab Fee: $12.60

Reading improvement for adults with emphasis on increasing and improving vocabulary and comprehension to college level. Prerequisite: English placement exam.

2508 01 MTWTh 08:00AM-09:05AM SHUTTL'TH K

2509 02 MTWTh 11:45AM-12:50PM SHUTTL'TH K

2510 03 MTWTh 02:15PM-03:20PM SHUTTL'TH K

ENGL 093 Basic Writing 3

Lab Fee: $12.60

This class is designed for adult students who have little or no experience writing beyond elementary school. During the class, students will choose a topic and develop the main idea and its support thus gaining practice in proofreading, punctuation and using correct grammar to develop paragraphs. Prerequisite: placement exam.

2512 01 MTWTh 08:00AM-09:05AM SHUTTL'TH K

2513 02 MTWTh 11:45AM-12:50PM SHUTTL'TH K

2514 03 MTWTh 02:15PM-03:20PM SHUTTL'TH K

ENGL 095 Writing Improvement 3

Lab Fee: $12.60

Through individual writing experiences and the practice of assigned exercises, the student will develop a procedure for writing and revising papers using word processing. Students may submit papers written during the quarter to portfolio assessment of preparedness for ENGL& 101. Prerequisite: ENGL 093 or placement.

2518 01 MTWTh 08:00AM-09:05AM SHUTTL'TH K

2519 02 MTWTh 11:45AM-12:50PM SHUTTL'TH K

2520 03 MTWTh 02:15PM-03:20PM SHUTTL'TH K

ENGL 098 Basic English Skills 5

Lab Fee: $21.00

English 98 covers techniques for improving basic writing skills at the sentence and paragraph level and introduces the skills needed for essay writing. Students will also work on improving reading comprehension, enriching vocabulary, and refining computer skills. Prerequisite: English Placement Test

2524 01 MTWTh 09:15AM-10:20AM HAMMOND D

2526 21H TTh 06:00PM-07:30PM PARSONS R

ENGL 099 English Skills (Pre-101) 5

Lab Fee: $21.00

English 99 provides students a solid preparation for college reading and writing using word processing. Students write personal and academic essays and prepare a writing portfolio at the end of the quarter. The course includes the study of sentence sense and mechanics, grammar, punctuation, paragraph and essay structure as well as activities that improve reading and vocabulary. Prerequisite: Successful completion of English 98 or direct placement through the English Placement Test.

2530 01 MTWTh 08:00AM-09:05AM HAMMOND D

2532 02 MTWTh 09:15AM-10:20AM ERNETTE D

2534 03 MTWTh 10:30AM-11:35AM ERNETTE D

2536 04 MTWTh 11:45AM-12:50PM WADE V

2537 21H TTh 06:00PM-07:30PM PARSONS R

2540 OL1 ARR ARR ERNETTE D

Online fee is $10.

ENGL&101 English Composition I 5

Lab Fee: $21.00

This composition course provides instruction in academic written communication by having students compose formal essays, with the goal of teaching students to communicate effectively and engage with issues and ideas. Prerequisite: placement exam or passing grade in ENGL 099. BS/HU

2546 01 MTWTh 08:00AM-09:05AM PITTS D

2549 02 MTWTh 09:15AM-10:20AM PITTS D

2551 03 MTWTh 11:45AM-12:50PM ERNETTE D

2552 04 MTWTh 11:45AM-12:50PM CLOSE S

2554 05 MTWTh 01:00PM-02:05PM ERNETTE D

2555 06 TTh 01:00PM-03:30PM PALUMBO A

2556 OL1 ARR ARR RASMUSSEN P

Online fee is $10.

2558 OL2 ARR ARR STAFF

Online fee is $10.

ENGL&102 Composition II 5

Lab Fee: $21.00

This advanced composition course provides instruction in academic writing through literary analysis and increases students' exposure to literature. Prerequisite: ENGL&101 BS/HU

2560 01 MTWTh 08:00AM-09:05AM TWOHY S

2562 02 MTWTh 09:15AM-10:20AM PALUMBO A

2563 03 MTWTh 09:15AM-10:20AM SULLIVAN M

2565 04 MTWTh 10:30AM-11:35AM SULLIVAN M

2566 05 MTWTh 10:30AM-11:35AM TWOHY S

2568 06 MTWTh 11:45AM-12:50PM PALUMBO A

2569 07 MTWTh 01:00PM-02:05PM GUTIERREZ O

2570 21 MW 06:00PM-08:30PM MURRAY A

2572 OL1 ARR ARR RAMM J

Online fee is $10.

ENGL 211 Creative Writing: Fiction 5

In this course students will develop the basic techniques that writers use to create imaginative and effective fiction, and use the writer's workshop as a method for improving their work. Although this class focuses on writing short stories, it can be useful for those interested in all forms of narrative writing, including novels, screenplays, and creative nonfiction. Prerequisite: ENGL&101 or instructor permission. HU

2590 01 MTWTh 11:45AM-12:50PM SULLIVAN M

ENGL 234 Science Fiction 5

Lab Fee: $10.00

This course provides instruction in the genre of science fiction as a literary type and will provide instruction in analysis of short stories, novels, and films from within the genre of science fiction. The course will range from the beginnings of science fiction through the present. Emphasis is placed on developing a definition of science fiction that helps to identify it as a unique literary type that is comprehensive enough in its concerns to be considered a legitimate and valuable type of literature. (Formerly ENG 234) HU

2608 21H T 06:00PM-08:00PM CLOSE S

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Fee is $10.

2609 OL1 ARR ARR CLOSE S

Online fee is $10.

ENGL&235 Technical Writing 5

Lab Fee: $31.00

This course is designed to improve students' written technical communication skills as are related to a range of professional applications. The goal of technical writing is to communicate a message clearly, concisely, and persuasively. This course emphasizes critical thinking skills as applied to technical writing, attention to research techniques, detail, professionalism, purpose, and audience. Students will learn to design, format, and produce documents common in business and industry. Prerequisite: ENGL& 101 HU

2611 01H T 01:00PM-03:30PM TWOHY S

Environmental Science

ENVS&100 Survey of Environmental Science 5

An introduction to the fundamental principles of environmental science, topics of study include: environmental, science, and information literacy, human population growth, environmental economics, ecosystems, population and community ecology, biodiversity, evolution and extinction, forests and grasslands, marine ecosystems, fisheries and aquaculture, freshwater resources and water pollution, solid waste, agriculture, coal and petroleum, air pollution and climate change, nuclear power, alternative energy sources, biofuels, urbanization, and sustainable communities. NS

2670 01 MTWTh 10:30AM-11:35AM WHITNEY M

2671 OL1 ARR ARR STAFF

First Aid

FAD 150 Industrial First Aid and C.P.R. Plus Bloodborne 2

Lab Fee: $9.40

An advanced industrial first aid course and blood borne pathogen course designed to meet the Department of Labor and Industry, OSHA and WISHA requirements. Intended for supervisory personnel, employees, pre-nursing, Pre-Emergency Medical Technicians, and those interested in having first aid and C.P.R. training. This course is recognized in the U.S. and several foreign countries by federal and state agencies and company employers.

2680 01 F 09:00AM-05:00PM BENKO A

Books are required. Class meets 1/6, 1/13, 1/20

2681 02W Sa 09:00AM-05:00PM BENKO A

Books are required. Class meets 1/7, 1/14, 1/21

2682 03 F 09:00AM-05:00PM BENKO A

Books are required. Class meets 1/27, 2/3, 2/10

2683 04 F 09:00AM-05:00PM BENKO A

Books are required. Class meets 2/17, 2/24, 3/3

French

FRCH&121 French I 5

Lab Fee: $5.00

Beginning French language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the French-speaking world. HU

2700 01 MTWTh 08:00AM-09:05AM MCCARTHY J

FRCH&122 French II 5

Lab Fee: $5.00

Beginning French language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the French-speaking world. Prerequisite: FRCH& 121 HU

2705 01 MTWTh 08:00AM-09:05AM MCCARTHY J

FRCH&123 French III 5

Lab Fee: $5.00

Beginning French language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the French-speaking world. Prerequisite: FRCH& 122 HU

2710 01 MTWTh 08:00AM-09:05AM MCCARTHY J

Health Education

HED 119 Medical Terminology 5

Lab Fee: $10.00

This course offers a broad overview of the fundamentals of medical terminology. Topics covered include: prefixes, suffixes, combining forms, word roots, abbreviations and basic human anatomy and physiology as they pertain to all major body structures and functions.

2796 22B ARR ARR DE HOOG J

Mandatory orientation 1/4 5:00-6:30 p.m. in room 1802, midterm exam 2/6 5:00-6:30 p.m. in room 1802, and final exam 3/20 5:00-6:30 p.m. in room 1802.

HED 121 The Human Body and Disease I 5

Lab Fee: $10.00

The first course of a three-part course sequence examining body structure, function and disease. This includes an introduction to the organization of the body, mechanism of disease, and discussion of the anatomy and physiology of skeletal system, muscular system, and the integumentary system. Common diagnostic tests/treatments, pharmacological agents, and possible prognoses for common disease processes are included. There is no lab component. Prerequisite: HED 119 with minimum grade of 2.0 or HED 119 as a co-requisite.

2802 01H T 01:00PM-03:00PM AUSERE S

HED 122 The Human Body and Disease II 5

Lab Fee: $10.00

The second of a three-part course sequence examining body structure, function and disease. This includes the analysis and discussion of the nervous system, endocrine system, the senses, cardiovascular system, and respiratory system. Common diagnostic tests/treatments, pharmacological agents, and possible prognoses for common disease processes are included. There is no lab component. Prerequisite: Completion of HED 121 with a minimum grade of 2.0, completion of HED 119 with a minimum grade of 2.0

2812 21H ARR ARR DE HOOG J

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Mandatory orientation January 4 from 4:00-5:00 p.m.; final March 20 from 4:00-5:30 p.m.

HED 239 Medical Ethics 2

Lab Fee: $10.00

This course introduces ethical and legal issues facing medical professionals.

2850 21H T 05:30PM-06:50PM MOTZKUS P

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Online fee is $10.

History

HIST 110 The American Experience 5

A brief history of the United States, this course combines a chronological and thematic approach to answer a few essential questions-the most important of which being, what does it mean to be an American? Critical periods in American History are examined with an eye toward their lasting impact upon American culture and politics. These periods include the colonial and revolutionary era, the age of reform (1830s/40s), the Civil War and Reconstruction, the Age of Industrialization, and world wars, and the Cold War. Essential questions will examine such things as democracy, opportunity, justice and equality. SS

2895 01 MTWTh 08:00AM-09:05AM STAFF

HIST&117 Western Civilization II 5

From early modern Europe to the Napoleonic wars in the 19th century, this course examines Western Civilization in transition: the Renaissance and Reformation; commercial expansion into the Americas, Africa, and Asia; absolutism, science, the Enlightenment, and the French Revolution. SS

2905 01 MTWTh 11:45AM-12:50PM QUITADAMO J

HIST&136 US History 1 5

From the Reformation in Europe to the end of the Civil War, this course includes colonization, the introduction of slavery, the Revolutionary and Early National Period, the development of political parties, nationalism and sectionalism, and the Civil War. Prerequisites: Placement in ENGL& 101 or completion of ENGL 099. SS

2930 01 MTWTh 01:00PM-02:05PM RILEY C

Section 01: This class includes the use of a Canvas online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

2931 OL1 ARR ARR RILEY C

Section OL1: All course work for this class will be completed online through Canvas.Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for further course instructions. Fee is $10

HIST&137 US History 2 5

From the end of the Civil War to present day, this course examines Reconstruction, the Gilded Age, America's rise to a world power, World War I, the triumph of Modernism, the Depression and New Deal, World War II, the Cold War, the turbulent 1960s, disillusioned '70s and the Reagan Revolution. More recent events are examined as ongoing and current events. Prerequisites: Placement in ENGL& 101 or completion of ENGL 099. Prior completion of HIST& 136: United States History I, is not required in order to take this class. SS

2935 01 MTWTh 02:15PM-03:20PM QUITADAMO J

Section 01 incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes & attend the first day of scheduled class for further instructions.

2937 OL1 ARR ARR RILEY C

Section OL1: All course work for this class will be completed online through Canvas.Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for further course instructions. Fee is $10

HIST 245 American Civil War and Reconstruction 5

This course examines the institutions, events, and personalities that made the Civil War an "irrepressible conflict," and the difficult reconstruction period that followed. The onset of the Civil War was rooted in the national controversy over slavery. For this reason a detailed look at southern slavery, northern industrialism and sectional politics and secession will precede study of the military history of the war itself and the political reconstruction. SS

2985 01 MTWTh 11:45AM-12:50PM RILEY C

HIST 250 Ancient Greece 5

A survey course of Greek history, beginning with the first identifiably Greek peoples of the Bronze Age and continuing down through the Dark Ages, the Classical period in Greece, the rise of Macedonia and Alexander the Great and the Hellenistic Age. In addition to the historical developments, we will look at Greek myth and religion, art, philosophy, science and other aspects of Greek culture. SS

2990 01 MTWTh 09:15AM-10:20AM WAITES W

Homeland Security

HSEM 102 Intro to Homeland Security Emergency Management 5

Lab Fee: $10.00

Provides groundwork on which emergency services can build a strong foundation for disaster and emergency management for homeland security in the 21st century. Addresses issues, policies, questions, best practices, and lessons learned through recent years; requirements of NFPA® 1600, Standard on Emergency Management and exposure to new and developing theories, practices, and technology in emergency management.

3010 OL1 ARR ARR STAFF

HSEM 130 Technology in Emergency Management 3

Lab Fee: $10.00

This class provides a detailed overview of the technology used, and also clearly explains how the technology is applied in the field of emergency management. Students will learn how to utilize technology in emergency planning, response, recovery and mitigation efforts and they'll uncover the key elements that must be in place for technology to enhance the emergency management process. Course overviews include: Web Emergency Operations Center (EOC), using technology with training and exercises, reverse 911 notification systems, video conferencing/downlinks and Geographic Information System (GIS)/ Global Positioning System (GPS) capabilities. Prerequisite: HSEM 102 Introduction to Emergency Management.

3020 OL1 ARR ARR STAFF

HSEM 180 Public Administration 3

Lab Fee: $10.00

This course provides an overview in the structure and issues of public service. Course participants will examine the context of public administration: the political system, the role of federalism, bureaucratic politics and power, and the various theories of administration that guide public managers today. Course components include public administration, personnel, budgeting, decision-making, organizational behavior, leadership, and policy implementation. Lessons will be drawn from the most current applications of public administration today, such as Hurricane Katrina efforts and Homeland Security. Prerequisite: HSEM 102 Introduction to Emergency Management

3025 OL1 ARR ARR STAFF

HSEM 190 Homeland Security Emergency Mgmt Special Topics 1- 5

Lab Fee: $10.00

Special topics will be developed for areas outside the usual course offerings in Homeland Security Emergency Management degree. Topics developed will focus on a specific current issue or concept in the areas of homeland security or emergency management. NOTE: A maximum of five (5) credit hours of HSEM 190 may be used as elective credit toward the HSEM degree. Prerequisite: : HSEM 102 Introduction to Emergency Management and 12 additional HSEM credits or HSEM Program Coordinator approval

3028 OL1 ARR ARR STAFF

HSEM 210 Exercise Design and Evaluation 3

Lab Fee: $10.00

This course provides participants with the knowledge and skills to develop, conduct, evaluate and report effective exercises that test a community's operations plan and

operational response capability. Throughout the course, participants will learn about topics including exercise program management, design and development, evaluation, and improvement planning. It also builds a foundation for subsequent exercise courses, which provide the specifics of the Homeland Security Exercise and Evaluation Program (HSEEP) and the National Standard Exercise Curriculum (NSEC). Prerequisite: HSEM 102 Introduction to Emergency Management and HSEM 120 All Hazards Emergency Planning or Program Coordinator approval.

3032 OL1 ARR ARR STAFF

HSEM 220 Developing and Managing Volunteer Resources 2

Lab Fee: $10.00

This course will focus on methods and procedures for involving private-sector organizations and volunteers in emergency management programs in ways which benefit both parties. The focus of the course is on maximizing the effectiveness of volunteer resources by implementing a people-oriented system that addresses defining volunteer roles, designing a plan of action, recruiting volunteers, training individuals who volunteer and motivation and maintenance of a successful program. Participants will acquire skills and knowledge to make appropriate volunteer assignments that enhance the effectiveness of an integrated emergency management system. Prerequisite: HSEM 102 Introduction to Emergency Management

3033 OL1 ARR ARR STAFF

HSEM 230 Disaster Recovery and Response 2

Lab Fee: $10.00

The purpose of this course is to enable students to understand and think critically about response and recovery operations in the profession of emergency management. Students will utilize problem based learning by analyzing actual disaster events and applying the theories, principals, and practice of response and recovery. In addition, students will learn about the issues faced by special populations and how to address these special needs in natural disaster response and recovery. Prerequisite: Completion of HSEM 102 and Completion of HSEM 120.

3035 OL1 ARR ARR STAFF

Industrial Systems

IST 105 Basic Electricity--DC Circuit Analysis 5

Lab Fee: $41.50

Fundamentals of DC electricity as applied to series, parallel, and series-parallel circuits. Use of test equipment and troubleshooting simple circuits. Co-requisite/Prerequisite: MAP 103 or instructor permission.

3052 01 MW 12:30PM-03:30PM AYERS J

IST 106 Basic Electricity--AC Circuit Analysis 5

Lab Fee: $41.50

Teaches alternating current theory, waveform quantities and characteristics, including network analysis with reactive components. Proper use of test equipment and troubleshooting simple circuits. Prerequisite: IST 105-Basic Electricity-DC; MAP 103-Technical Mathematics; or Instructor Permission

3058 01 TTh 12:30PM-03:30PM AYERS J

IST 112 National Electric Code III 2

Washington State electrical laws (WAC Codes 296-46, RCW 19.28) and National Electrical Code (NFPA 70) are applied to the working electrician. Prerequisite: IST 111 or instructor permission.

3084 01 MW 02:30PM-03:20PM AUTRY B

IST 120 Introduction Preventive/Predictive Maintenance 3

Lab Fee: $24.90

Theory and practice of preventive and predictive maintenance concepts. Performing routine preventative maintenance and scheduling predictive maintenance outages. Prerequisite: IST 102-Technical Drawing Interpretation, MAP 103 Applied Mathematics, or instructor permission.

3096 01 TTh 10:20AM-12:00PM AUTRY B

3098 02 MW 12:30PM-02:10PM AUTRY B

IST 136 Introduction to Industrial Boiler Technology 5

Lab Fee: $41.50

This course involves the fundamental principles of steam generation, boiler designs, components, operation, water treatment, safety procedures and related steam generation equipment. Prerequisite: IST 107 or instructor permission.

3108 01 MW 09:00AM-12:00PM AUTRY B

IST 152 Programmable Automation Control 5

Lab Fee: $41.50

Programmable Logic Controllers have become the backbone of modern industrial automation. This course explores PLC principles, networking, hardware and operation, with emphasis on ladder logic instruction sets, maintenance and troubleshooting using the Allen-Bradley Compact Logix™ platform and Control Logix™ programming software. Prerequisite: IST 150 - Introduction to Programmable Logic Controllers, or Instructor permission.(Formerly IST 250)

3117 01 TTh 12:30PM-03:30PM AUTRY B

IST 170 Introduction to Instrumentation 5

Lab Fee: $41.50

Fundamentals of process control as it applies to process variables, measurement dynamics, & automatic corrective measures in the industrial environment. Prerequisite: IST 107- Industrial Electricity I or instructor permission.

3120 01 TTh 09:00AM-12:00PM AYERS J

IST 180 Machining I 5

Lab Fee: $41.50

Layout and fabrication techniques with the use of semi-precision and precision measurement tools. Introduction to Drill Press, Engine Lathe and Vertical Mill operations. Prerequisite(s): MAP 103-Applied Mathematics and IST 102- Technical Drawing Interpretation or instructor permission.

3126 21 TTh 05:00PM-08:00PM AUTRY B

IST 182 Machining II 5

Lab Fee: $41.50

Fundamentals of machining processes on lathes and vertical mills. Precision measurement with micrometers, vernier calipers, and dial indicators. Prerequisite: IST 180- Machining I or instructor permission.

3132 21 TTh 05:00PM-08:00PM AUTRY B

IST 184 Machining Skill Enhancement 4

Lab Fee: $33.20

Extra "hands on" time and instruction to supplement the students machining skill level using fundamental machining processes on lathes, vertical milling machines and other machine shop equipment. Prerequisite: IST 182-Machining II or instructor permission.

3138 21 TTh 05:00PM-08:00PM AUTRY B

IST 207 Industrial Electricity II 5

Lab Fee: $41.50

Electrical theory and function as it applies to various control schemes with a practical understanding of the logic and safety considerations required for efficient control of "stand alone" machinery and or a complex system. Prerequisite: IST 107 or instructor permission,

3145 21 MW 04:30PM-07:30PM AYERS J

IST 223 Electronics III (Industrial) 5

Lab Fee: $41.50

Instruction and training in troubleshooting, testing and repairing industrial control devices. Electrical motor drives, instrumentation, and programmable controllers will be covered. Prerequisite: IST 222- Electronics II or instructor permission.

3172 01 MW 09:00AM-12:00PM ROBERTS J

IST 224 Electronic Communication I 5

Lab Fee: $41.50
Provides instruction covering the basic concepts of electronic communication equipment and systems. Emphasis is on radio frequency and other high speed data applications that are being applied in new configurations within the industrial community. Prerequisite: IST 222-Electronics II or instructor permission.

3178 21 TTh 04:30PM-07:30PM MATERN S

Math

MATH 094 Introduction to Algebra 5

Lab Fee: $30.00

This course includes the study of basic arithmetic and algebraic concepts and operations including operations with integers, fractions, decimals and percents; order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear equations(formerly MCP 090, Math 090) Prerequisite: Appropriate placement on the BBCC math placement exam

3248 CL1 MTWTh 08:00AM-09:05AM SHERWOOD M

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3249 CL2 MTWTh 09:15AM-10:20AM SHERWOOD M

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3250 CL3 MTWTh 10:30AM-11:35AM MAYER A

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3251 CL4 MTWTh 11:45AM-12:50PM MAYER A

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3252 CL5 MTWTh 01:00PM-02:05PM WHITNEY B

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3253 CL6 MTWTh 02:15PM-03:20PM HARBERTS B

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3255 CLN MW 06:00PM-08:30PM RAMIREZ M

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

MATH 098 Intermediate Algebra I 5

Lab Fee: $30.00

This course includes the study of intermediate algebraic operations and concepts, and the structure and use of algebra. This includes solving, graphing, and solving applications of linear equations and systems of equations; simplifying, factoring, and

solving quadratic functions, introduction to functions and models; and exponential and logarithmic functions along with applications. (formerly Math 095, 096) Prerequisite: MATH 094 or placement.

3287 01 MTWTh 08:00AM-09:05AM ABED S

Taught in traditional lecture manner.

3288 CL1 MTWTh 08:00AM-09:05AM SHERWOOD M

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3289 CL2 MTWTh 09:15AM-10:20AM SHERWOOD M

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3290 CL3 MTWTh 10:30AM-11:35AM MAYER A

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3291 CL4 MTWTh 11:45AM-12:50PM MAYER A

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3292 CL5 MTWTh 01:00PM-02:05PM WHITNEY B

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3293 CL6 MTWTh 02:15PM-03:20PM HARBERTS B

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3295 CLN MW 06:00PM-08:30PM RAMIREZ M

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3294 OL1 ARR ARR STAFF

Section OL1: Students view class lectures and submit assignments online; exams are taken on campus.

MATH 099 Intermediate Algebra II 5

Lab Fee: $30.00

This course is designed to prepare students for precalculus and finite math. It includes the study of inequalities, applications of systems, rational expressions, functions, radicals, rational exponents, radical equations, complex numbers, quadratic equations and their application.(formerly Math 098) Prerequisite: Math 098 or placement.

3378 CL1 MTWTh 08:00AM-09:05AM SHERWOOD M

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3379 CL2 MTWTh 09:15AM-10:20AM SHERWOOD M

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3297 01 MTWTh 10:30AM-11:35AM FARAG S

Taught in traditional lecture manner.

3380 CL3 MTWTh 10:30AM-11:35AM MAYER A

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3381 CL4 MTWTh 11:45AM-12:50AM MAYER A

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3382 CL5 MTWTh 01:00PM-02:05PM WHITNEY B

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3383 CL6 MTWTh 02:15PM-03:20PM HARBERTS B

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3385 CLN MW 06:00PM-08:30PM RAMIREZ M

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3300 OL1 ARR ARR STAFF

Section OL1: Students view class lectures and submit assignments online; exams are taken on campus.

MATH&107 Math in Society 5

Lab Fee: $30.00

This course will introduce the non-math/science major to mathematical applications in a variety of disciplines. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MATH 098 or placement into MATH 099/107/146. SQR

3301 01 MTWTh 09:15AM-10:20AM ABED S

MATH&141 Precalculus I 5

Lab Fee: $30.00
This course will present the following concepts: college level algebra, introduction to functions and graphing, the graphs and properties of polynomial, rational, radical, exponential and logarithmic functions. Prerequisites: MATH 099 MS/SQR

3318 01 MTWTh 09:15AM-10:20AM WHITNEY B

3319 02 MTWTh 11:45AM-12:50PM WHITNEY B

3320 OL1 ARR ARR HARBERTS B

Online fee is $10.

MATH&142 Precalculus II 5

Lab Fee: $30.00

In preparation for calculus this is a comprehensive study of trigonometry, circular functions, right triangle trigonometry, analytical trigonometry. Sequences, series and induction are also covered. Prerequisite: MATH &141 MS/SQR

3322 01 MTWTh 08:00AM-09:05AM WHITNEY B

3324 02 MTWTh 01:00PM-02:05PM FARAG S

MATH&146 Introduction to Statistics 5

Lab Fee: $30.00

This course is an introduction to descriptive statistics, probability and its applications, statistical inference and hypothesis testing, predictive statistics and linear regression. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MATH 098 or placement into MATH 099/107/146. SQR

3330 01 MTWTh 08:00AM-09:05AM STAFF

3331 02 MTWTh 09:15AM-10:20AM FARAG S

3332 03 MTWTh 01:00PM-02:05PM ABED S

3333 21 MW 06:00PM-08:30PM STAFF

MATH 147 Finite Mathematics 5

Lab Fee: $30.00

This course introduces the student to applications of linear functions in business; applications of matrices to systems of equations, linear programming and optimization, game theory, Markov chains, Leontiff input/output models, etc; introduction to

probability and decision analysis. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MATH 099.MS/SQR

3340 01 MTWTh 01:00PM-02:05PM HARBERTS B

MATH&151 Calculus I 5

Lab Fee: $30.00

This course will introduce the student to the basic concepts of the calculus. It will give the student an appreciation of the calculus and its applications in the real world and will prepare the student for future work in mathematics and the sciences. Course includes functions, limits, continuity, derivatives and their applications, and integration and its applications. Prerequisite(s): MATH& 142 or BBCC placement exam, or instructor permission. MS/SQR

3350 01 MTWTh 10:30AM-11:35AM HARBERTS B

MATH&152 Calculus II 5

Lab Fee: $30.00

This course will expand on the applications and techniques of differentiation learned in the first quarter and give a depth study of integration including the fundamental methods of integrating elementary algebraic and transcendental functions. It will include the applications of the calculus to transcendental functions, analytical geometry and other relevant topics. Prerequisite: MATH& 151 or instructor permission. MS/SQR

3355 01 MTWTh 10:30AM-11:35AM LANE S

MATH&163 Calculus 3 5

Lab Fee: $30.00

This course will expand on the applications and techniques of differentiation learned in the first and second quarters. It will introduce the student to the calculus of sequences and series and the use of the MacLauren and Taylor series to approximate functions. It will introduce the student to the calculus of curvilinear functions and the concept of the vector and vector functions. It will also introduce the concept of a partial derivative and the maximization of functions given in more than one independent variable. Prerequisite: MATH& 152 or instructor permission. MS/SQR

3360 01 MTWTh 10:30AM-11:35AM ABED S

MATH 220 Linear Algebra 5

Lab Fee: $30.00

A study of matrix algebra and systems of equations, abstract vector spaces including basis and dimension, linear transformations, eigenvalues and eigenvectors. Some applications of linear algebra to illustrate the above concepts. Prerequisite: MATH& 152 or instructor permission.
MS/SQR

3365 01 MTWTh 08:00AM-09:05AM LANE S

Math (Applied)

MAP 100 Applied Mathematics (AMT) 2

This course will cover aircraft technical mathematics and is designed for the Aviation Maintenance Technology student. It will cover the fundamental mathematical principles required for the successful completion of the Aviation Maintenance Technology program. This course is FAA approved under 14 CFR Part 147. Prerequisite: Successful completion of DVS 080 or placement into MATH 094 or above. Must be enrolled in the Aviation Maintenance Technology program.

3386 01 ARR ARR DANNENBERG K

MAP 103 Applied Mathematics (MMT/IST) 5

This class provides review and instruction in whole numbers, decimals, fractions, measurement, ratio, proportion, percents, introduction to algebra, and introduction to geometry. This basic instruction and review is followed by vocational program specific mathematics instruction. Students will study mathematics for electricity/electronics. The emphasis is on providing a solid mathematics base to facilitate assimilation of more complex mathematics as well as providing course work in relevant work-specific problems and situations. Collaborative learning is encouraged and built into the course to give students practice in a key skill used in the workplace. Prerequisite: successful completion ofMATH 080 or BBCC Math placement score of MATH 090 or above.

3400 21 MW 06:00PM-08:20PM MATERN S

MAP 108 Applied Mathematics (MA) 3

Lab Fee: $10.00

This class provides review and instruction in whole numbers, fractions, ratios, decimals, proportions, percents, measurement and metrics, word problems (fractions, decimals, percentages) tables and graphs as they relate to employment as a Medical Assistant. Prerequisite: Successful completion of MATH080 or BBCC Math Assessment placement into Math 090 or above.

3416 21H MW 04:00PM-05:20PM BAUER J

Medical Assistant

MA 112 Clinical Procedures II 4

Lab Fee: $49.50

This course builds upon knowledge and skills acquired during Clinical Procedures I. Students will further their understanding of the medical front office by learning diagnosis and procedural coding, office management, scheduling and written communication. The students will also build upon previously learned clinical skills by understanding infection control, sterile field protocol, physical therapy and rehabilitation and administration of medication. During this class students will also learn and practice injection techniques. Prerequisite: Minimum final grade of 2.0 in MA 111 or instructor permission required

3551 01 F 08:00AM-04:00PM OHS K

3552 02B F 08:00AM-04:00PM OHS K

Music

MUSC&105 Music Appreciation 5

This course is designed to acquaint students with the elements of music and enhance the student's experience in listening to music from a global perspective. By drawing attention to the wide variety of music and the place/role of music in different cultures, students will develop an awareness of the diverse musical styles and cultures in the United States and throughout the world. HU

3605 01 MTWTh 09:15AM-10:20AM DZBENSKI M

3607 OL1 ARR ARR DZBENSKI M

Students need to have access to a reliable computer and Internet connection as this course is delivered all online. Online fee is $10.

MUSC 110 College Choir 1

This traditional ensemble made up of mixed voices rehearses a wide variety of choral literature for study and performance. This ensemble will perform quarterly for campus and community events. This course may be repeated for up to six credits.HP

3610 21 T 06:00PM-08:00PM DZBENSKI M

MUSC 134 Beginning Group Guitar 2

This course provides students with an interactive approach to the fundamentals of playing the guitar. Each student's playing aptitude will be accommodated with different options within a unified set of goals. It will include reading tablature and standard notation, introducing chords and solo pieces using a variety of techniques, and provide an overview of basic guitar care and maintenance. This course may be repeated for up to six credits.HP

3670 01 TTh 01:00PM-02:15PM DZBENSKI M

MUSC 170 History of Jazz 5

Lab Fee: $10.00

This course covers the history and origin of Jazz and its stylistic development from the various periods of pre-jazz to today. The class will include an extensive study of important musicians, composers, arrangers, and styles which evolved the genre. The class will include detailed listening assignments and an introduction to jazz musical vocabulary and concepts.HU

3720 OL1 ARR ARR DZBENSKI M

Students need to have access to a reliable computer and Internet connection as this course is delivered all online. Online fee is $10.

Nursing

NUR 100 Nursing Assistant 9

Lab Fee: $216.41

This course prepares students to take the Nursing Assistant examination as outlined by Federal and State guidelines. Training will include classroom, skills lab, and clinical experience. Prerequisites: Read, write, speak and understand English at the level necessary for performing duties of the nursing assistant. (Placement in English 99 or above)

3800 01 TTh 01:00PM-05:00PM ERWIN K

**** F 06:00AM-05:00PM ERWIN K

The NAC lab fee includes: malpractice and liability insurance, drug testing, CPR certification, and registration for one state NAC test. For more information email kathye@bigbend.edu.

NUR 103 HIV/AIDS Education 1

Lab Fee: $10.00

An HIV/AIDS education course designed to meet the Washington State mandatory requirements for health care and childcare providers. Successful completion includes HIV/AIDS education certificate.

3808 01H ARR ARR OHS K

Class orientation and assignments are accessed online via Canvas. Mandatory in class final on February 27 at 4:00 p.m. in room 1802. Online fee is $10.

NUR 120 Beginning Nursing Concepts I 6

Focus is on nursing theory as it relates to the adult patient with commonly occurring health conditions, and includes an introduction to the care of the patient in the perioperative and maternal/newborn setting. Professional roles and progression are incorporated in this course. Prerequisite: BIOL& 260, with a 2.0 G.P.A. or above,

3830 01 F 09:00AM-04:00PM CHRISTIAN K

NUR 121 Beginning Nursing Practicum I 4

Lab Fee: $2.50

Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 120 and NUR 136. Practicum focuses on nursing care to a variety of patients in the medical/surgical, perioperative, and maternal newborn setting. Prerequisite: BIOL&260, with a 2.0 G.P.A. or above.

3834 01 ARR ARR BROOKS J

3835 02 ARR ARR STAFF

3836 03 ARR ARR STAFF

NUR 136 Nursing Skills Laboratory 1

Lab Fee: $188.20

This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 121). The content is based on theoretical nursing knowledge taught in NUR 120. Prerequisite: BIOL& 260 with a 2.0 G.P.A. or above.

3856 01 ARR ARR BROOKS J

Two hours arranged per week. Graded on a pass/fail basis.

NUR 220 Advanced Nursing Concepts II 5

This course continues to focus on expansion of theoretical nursing knowledge related to complex disease states. Delegation and leadership concepts are incorporated in this course. Prerequisite: PSYC&200 with a 2.0 G.P.A. or above.

3916 01 F 09:00AM-03:00PM GONZALEZ-ALL

NUR 221 Advanced Nursing Practicum II 5

Lab Fee: $2.50

Clinical focus is on application of principles and skills taught in previous nursing courses and introduced in NUR 220 and NUR 236. Practicum focuses on advanced nursing care to less stable patients in a variety of settings throughout the lifespan. Prerequisite: PSYCH&200 with a
minimum 2.0 GPA or above.

3920 01 ARR ARR GONZALEZ-ALL

3921 02 ARR ARR BROOKS J

3922 03 ARR ARR STAFF

NUR 236 Nursing Skills Laboratory 1

Lab Fee: $188.20

This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of patient care in the clinical setting (NUR 221). The content is based on theoretical nursing knowledge taught in NUR 220 and previous courses. Prerequisite:PSYCH& 200 with a minimum 2.0 GPA or above.

3946 01 ARR ARR GONZALEZ-ALL

Two hours arranged per week. Graded on a pass/fail basis.

Nutrition

NUTR&101 Nutrition 5

This introductory course in nutrition will focus on current ideas in nutrition and areas of research. This class will present information on the chemistry and the biological function of nutrients in the body. Diseases associated with an excess or deficit in nutrients will also be explored. Students will acquire a better understanding of some impacts of food choices on a personal level. Prerequisite: Completion of ENGL 099 or placement in ENGL& 101. NS

3981 01 MTWTh 09:15AM-10:20AM STAFF

3983 OL1 ARR ARR HALEY G

Students listen to mini lectures of course material, participate in class discussions, & submit assignments & quizzes online. Major tests are proctored at the BBCC Testing Center or an approved alternate location. Online fee is $10.

Philosophy

PHIL&101 Intro to Philosophy 5

This course is an introduction to philosophy for students who have no previous background in the subject. The course presents a broad overview of philosophical

topics of interest and importance such as the nature of knowledge and the contents of reality. HU

4202 01 MTWTh 01:00PM-02:05PM LANE S

PHIL&120 Symbolic Logic 5

This course is a study of the methods and principles used to distingui<$!
>sh correct from incorrect reasoning. Students are expected to prove their understanding of formal deductive symbolic logic by completing logic proofs in categorical, propositional, and predicate logic.HU/SQR
Prerequisites: Math 098 or above

4215 01 MTWTh 11:45AM-12:50PM KNEPP D

(Formerly PHIL& 106)

4217 OL1 ARR ARR KNEPP D

(Formerly PHIL& 106) Online fee is $10.

PHIL 210 Ethics 5

An introduction to ethical theories and some contemporary moral problems such as abortion, euthanasia, war, and capital punishment. Topics vary. HU

4224 01 TTh 02:15PM-04:15PM KNEPP D

4225 OL1 ARR ARR KNEPP D

Online fee is $10.

PHIL 211 Ethics for Criminal Justice 5

A study of the principal ethical theories and their application to individual and social morality tied to the field of Criminal Justice. Prerequisite: CJ& 101

4227 21 TTh 06:00PM-08:20PM MATCHETTE J

Physical Education

PEH 090 Recreational Gym 0

Community Ed Fee: $31.50

This activity permits the use of BBCC Gym facilities during available hours by individuals who are not students registered at BBCC. Must be 18 years of age to enroll in recreational gym. Community service class.

4302 21 ARR ARR DE HOOG M

PEH 100 Lifetime Wellness 3

Lifetime Wellness is designed to promote the student's understanding of their physical, emotional, and social health needs, and to develop strategies to meet these needs and improve overall health and well-being.SE

4310 01 MTW 09:15AM-10:05AM STAFF

4312 02 MTW 10:30AM-11:20AM STAFF

4313 03 MTW 11:45AM-12:35PM STAFF

4314 OL1 ARR ARR NICHOLS L

Online fee is $10.

4315 OL2 ARR ARR NICHOLS L

Online fee is $10.

PEH 102 Theory Of Basketball 3

Designed for students to learn the basic skills required to teach or coach basketball. Emphasis is placed on analyzing fundamentals, gaining knowledge of offensive and defensive strategy and becoming familiar with the responsibilities of a basketball program. SE

4320 01 MTWTh ARR POTH M

4324 02 MTWTh ARR WILKS P

PEH 125 Conditioning 1

Lab Fee: $4.20

Conditioning is designed to introduce the student to the basic principles and training methods for body conditioning so they can establish an exercise program to enhance overall wellbeing. May be repeated for
up to three (3) credits.AC

4356 01 ARR ARR NAGY J

4360 02 ARR ARR MOFFITT R

4362 03 ARR ARR DOUMIT P

PEH 131 Circuit Weight Training 1

Lab Fee: $4.20

Circuit weight training is designed to introduce the student to the basic principles and training methods for weight training so to establish a program to enhance build and maintain muscular strength and endurance. May be repeated for up to three (3) credits.AC

4365 01 ARR ARR DE HOOG M

4366 02 ARR ARR WILKS P

PEH 132 Fitness 1

Lab Fee: $4.20

An overall conditioning program with emphasis on developing strength, endurance, flexibility, and cardiovascular conditioning that lead to the development of a fitness attitude. May be repeated for up to three (3) credits.AC

4372 01 MW 11:45AM-12:35PM MOFFITT R

PEH 155 Body Toning 1

Lab Fee: $4.20

This course involves special exercise and calisthenics which enhance total fitness, figure improvement, body toning, weight control, and posture. Students will use balance/fitness balls and light to medium dumbbells to improve overall core strength and balance of the body. May be repeated for up to three (3) credits. AC

4389	01	MW	10:30AM-11:20AM	NIELSEN C
4390	02	MW	11:45AM-12:35PM	NIELSEN C
4391	03	TTh	11:45AM-12:35PM	NIELSEN C
4394	26	ARR	ARR	GRAHAM M

Section 26 will be taught at Jazzercise, 824 W 3rd Ave, Moses Lake. Students enrolling in this section will pay Jazzercise for sessions. Contact Mary Graham at 765.4581 for enrollment information.

PEH 158 Racquetball 1

Lab Fee: $4.20

Racquetball is designed to introduce the student to the knowledge and basic skills of badminton and to develop those skills to a level that enables the student to participate in the sport at a beginning level. May be repeated for up to three (3) credits. AC

4396	01	MW	10:30AM-11:20AM	DE HOOG M

Physics

PHYS&110 Physics for Non-Science Majors with Lab 5

Lab Fee: $29.60

This course is a general survey course for the non-science major. The course helps develop an awareness of the physical concepts which govern our everyday experiences. Topics will include most of the following, depending on class preparation and interest: describing motion, Newton's laws of motion and gravitation, energy and conservation laws, states of matter and its behavior, thermodynamics, waves, electricity and magnetism, optics, atomic and nuclear physics, special relativity. Conceptual reasoning is stressed, and mathematics is kept to the level of elementary algebra. Laboratories emphasize concepts learned in lecture, and graphing and data handling techniques are learned. This course is offered primarily to meet the Associate in Arts and Science laboratory science requirement. Prerequisites: MATH 098 or placement in to a higher level mathematics course.

4452	01	MTWTh	08:00AM-08:50AM	HAMM J
Lab		F	09:00AM-11:00AM	HAMM J

PHYS&222 Engineering Physics II w/Lab 5

Lab Fee: $29.60

The second in a three-quarter calculus-based sequence in introductory

physics intended for students majoring in science or engineering. Course content includes thermodynamics, waves, and optics. Prerequisite: Successful completion of Engineering Physics I (PHYS& 221)LS

4466 01 MTWTh 09:30AM-10:20AM HAMM J

Lab T 02:15PM-04:15PM HAMM J

4468 02 MTWTh 11:45AM-12:35PM HAMM J

Lab T 04:30PM-06:30PM HAMM J

Political Science

POLS&202 American Government 5

Lab Fee: $10.00

From the constitutional convention in Philadelphia (1788) to the most recent presidential elections, this course explores American politics and governmental functions. The focus is on the interaction and structure of the executive, legislative, and judicial branches of the national government, and a survey of the philosophic foundations for the American governmental system. SS

4502 OL1 ARR ARR QUITADAMO J

All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions. Online fee is $10.

Psychology

PSYC&100 General Psychology 5

A broad survey course designed to study human behavior with reference to biology, learning, motivation, emotion, perception, intelligence, human development, mental processes, personality, abnormal behavior, and research. SS

4552 01 MTWTh 08:00AM-09:05AM RICHINS P

4553 02 MTWTh 01:00PM-02:05PM STAFF

4554 03 MTWTh 02:15PM-03:20PM HOLLIWAY D

4556 04H Sa 10:00AM-12:00PM FARMAN J

Section 04H incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for further instructions. Fee: $10

4557 OL1 ARR ARR LEONARD R

Section OL1: All course work for this class will be completed online through Canvas.Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for further course instructions. Fee is $10

4558 OL2 ARR ARR LEONARD R

Section OL2: All course work for this class will be completed online through Canvas.Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for further course instructions. Fee is $10

PSYC&200 Lifespan Psychology 5

This course examines the physical, intellectual, emotional, and social growth and development that occurs throughout the human lifespan. Prerequisite: PSYC& 100. SS

4576 01 TTh 10:30AM-12:50PM HOLLIWAY D

4577 OL1 ARR ARR STAFF

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions.

PSYC 225 Psychology & The Legal System 5

Lab Fee: $10.00

This course is a survey of the major topics represented in the field of psychology and law. This course focuses on how psychological research (across sub-disciplines such as clinical, social, cognitive, and community psychology) can contribute to a better understanding of issues related to law or legal process, how the legal system can be informed by the results of psychological research, and how psychological research can be more reactive to legal issues. Prerequisite/corequisite: PSYC& 100 or CJ& 101. SS

4598 01H MTWTh 11:45AM-12:50AM LEONARD R

Section 01H incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Typically the class will only meet two days per week with the other days watching lectures & completing assignments.

Religious Studies

REL 211 Religion in America 5

A study of American religious groups, principally Christian denominations, including selected sects and cults. Various beliefs and practices will be examined in light of historical and social influences. HU

4615 01 MTWTh 01:00PM-02:05PM SCHAADT J

Medical Simulation

SIM 110 Fundamentals of SIM Programming 2

Lab Fee: $177.00

This course covers basic concepts of simulation hardware and software in order to address the impact of hardware design on applications and systems software. Specifically, students will focus on simulation theory as it applies to the basic components and application of simulation equipment and software. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

4618 01H ARR ARR STAFF

SIM 130 Introduction to Medical Simulation 5

Lab Fee: $177.00

By engaging in hands-on training, students will learn to prepare, rehearse, and implement Basic Life Support (BLS) simulated training scenarios. Additionally, this course will strengthen an understanding of basic programming and maintenance for high and low fidelity manikins while concurrently developing team dynamics, problem solving, and critical thinking skills. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

4622 01 ARR ARR STAFF

Social Work

SOCW 110 Introduction to Social Work 5

Lab Fee: $10.00

This course is a general introduction to the history of social work, the issues social workers encounter, the systems in which social workers work, the theories and practices social workers utilize, as well as the services they provide across the varying field of practice.

4636 01H Sa 09:00AM-11:30AM WARNOCK L

Sociology

SOC& 101 Intro to Sociology 5

Sociology is the scientific study of human groups and their social systems. Sociologists study how groups are organized and structured, their character and interaction, how groups change, and their impact on individuals. The course focuses on applying the "sociological imagination" which in turn helps students understand and appreciate different societies and cultures both contemporary and historical. Prerequisites: There are no prerequisites. Strongly recommended placement in MATH 095 or higher and placement in English 099 or higher.SS

4640 01 MTWTh 09:15AM-10:20AM STAFF

4643 OL1 ARR ARR HOLLIWAY D

All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions. Online fee is $10.

4644 OL2 ARR ARR TATE-LIBBY J

All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions. Online fee is $10.

SOC& 201 Social Problems 5

A sociological analysis of the major social problems facing both the United States and the world today. Among the topics analyzed are: Family disorganization, social deviance, poverty, crime, over population and environmental degradation. Strongly recommend placement in MATH 095 or higher and placement in ENGL 099 or higher. SS

4655 01 MW 10:30AM-12:50PM HOLLIWAY D

Spanish

SPAN&121 Spanish I 5

Lab Fee: $5.00

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the
Spanish-speaking world.HU

4702 01 MTWTh 01:00PM-02:05PM LEAVITT A

4704 21 MW 06:00PM-08:30PM MCLAUCHLAN N

SPAN&122 Spanish II 5

Lab Fee: $5.00

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanish-speaking world. Prerequisite: SPAN& 121. HU

4712 01 MTWTh 10:30AM-11:35AM LEAVITT A

4714 21 MW 06:00PM-08:30PM MCLAUCHLAN N

SPAN&123 Spanish III 5

Lab Fee: $5.00

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanish-speaking world. Prerequisite: SPAN& 122. HU

4722 01 MTWTh 09:15AM-10:20AM LEAVITT A

4724 21 MW 06:00PM-08:30PM MCLAUCHLAN N

Unmanned Systems

UMS 101 Introduction to Unmanned Aircraft Systems (UAS) 5

Lab Fee: $10.00

Students will be introduced to unmanned aircraft systems (UAS), including UAS types, system operations, current legal and ethical issues, the flight authorization process, safety of flight, sense and avoid technologies, sensors and payloads, human factors, and UAS simulator operation.

4770 01H F 12:00PM-04:30PM DELVALLE R

Hybrid class meets on campus January 13 & 27, February 10 & 24, and March 10.

Welding

WLD 101 Oxy-Acetylene Welding For Auto Technicians 2

Lab Fee: $24.00

Fundamentals of oxy-acetylene welding and cutting. Lessons include carbon-steel welding and brazing, aluminum and cast-iron welding and cast-iron welding and oxy-acetylene, plasma arc cutting. Practical knowledge of safety in the use and handling of equipment and compressed gases will be stressed throughout the quarter. Prerequisite: enrollment in
Automotive Technology.

4800 01 MW 03:05PM-04:25PM GILBERT C

WLD 102 Arc/Gmaw Welding For Auto Technicians 2

Lab Fee: $24.00

This course covers the fundamentals of the GMAW semi-automatic process for welding carbon steel, stainless steel and aluminum. Using these materials, the student will learn to run stringer beads, butt, lap and 'T' joints, in all positions with various modes of metal deposition and using different gasses. Prerequisite: enrollment in Automotive Technology.

4810 01 TTh 03:05PM-04:25PM GILBERT C

WLD 103 Beginning AMT Welding 2

Lab Fee: $24.00

Fundamentals of oxy-acetylene welding with carbon steel and aluminum, as well as brazing and braze welding with carbon steel; soldering with stainless steel and carbon steel; Gas Tungsten Arc Welding (GTAW) with aluminum, stainless steel, and carbon steel. This course is FAA approved under 14 CFR Part 147. Prerequisite: Enrollment in AMT 151 or AMT 152.

4820 01 MTWTh 12:30PM-03:00PM GILBERT C

4823 02 F 08:00AM-02:00PM GILBERT C

WLD 111 Welding Process I 3- 6

Lab Fee: $72.00

Variable Credit Lab Fees are calculated at the highest rate

An introduction to the Shielded Metal Arc Welding process. Students will perform beads, fillets and Plate tests in all position with E6010 and E7018 Electrodes. Students must complete all 6 credits of WLD 111 prior to enrolling in WLD 121.

4840 01 MTWTh 12:30PM-03:00PM MCDANIEL S

4843 02W Sa 08:00AM-02:30PM GILBERT C

4846 21 MW 06:35PM-09:35PM GILBERT C

4848 22 TTh 06:35PM-09:35PM GILBERT C

WLD 112 Thermal Cutting and Welding 3

Lab Fee: $36.00

Various techniques of steel cutting with oxy-fuel, air carbon arc, plasma arc processes and oxy-acetylene welding and brazing with various metals.

4856 01 MTWTh 10:25AM-11:45AM MCDANIEL S

4858 02W Sa 08:00AM-02:30PM GILBERT C

4860 21 MW 06:35PM-09:35PM GILBERT C

4862 22 TTh 06:35PM-09:35PM GILBERT C

WLD 120 Welding Theory II 5

Fundamentals of G.M.A.W. and F.C.A.W. processes with their related equipment. Basics of electrical theory and welding machines. Shielding gasses, filler materials, and general welding procedures including carbon steel, stainless steel, and aluminum. Prerequisite: WLD 110 or instructors permission.

4870 01 MTWTh 09:15AM-10:20AM MCDANIEL S

4872 21 TTh 04:30PM-06:35PM GILBERT C

WLD 121 Welding Process II 3- 6

Lab Fee: $72.00

Variable Credit Lab Fees are calculated at the highest rate

An introduction to welding open root joints. Students use E6010 to complete open root corner joints out of position and open root plate tests out of position. Students must complete all 6 credits of WLD 121 prior to enrolling in WLD 131. Prerequisite: 6 credits of WLD 111.

4880 01 MTWTh 12:30PM-03:00PM MCDANIEL S

4882 02W Sa 08:00AM-02:30PM GILBERT C

4884 21 MW 06:35PM-09:35PM GILBERT C

4886 22 TTh 06:35PM-09:35PM GILBERT C

WLD 122 Gas Metal Arc Welding I 3

Lab Fee: $36.00

Students will learn to apply the Gas Metal Arc Welding (MIG) process on steel in all positions using the short circuit transfer mode and the spray transfer mode in the flat and horizontal positions. Prerequisite: WLD 112.

4896 01 MTWTh 10:25AM-11:45AM MCDANIEL S

4898 02 ARR 12:30PM-03:00PM MCDANIEL S

4900 03W Sa 08:00AM-02:30PM GILBERT C

4902 21 MW 06:35PM-09:35PM GILBERT C

4904 22 TTh 06:35PM-09:35PM GILBERT C

WLD 131 Welding Process III 3- 6

Lab Fee: $72.00

Variable Credit Lab Fees are calculated at the highest rate

Using E-7018 electrodes, weld corner joints, bevel plates in all positions and ASME and WABO performance certification tests. These three credit courses may be repeated for credit up to six credits. Prerequisite: 6 credits of WLD 121

4920 01 MTWTh 12:30PM-03:00PM MCDANIEL S

4922 02W Sa 08:00AM-02:30PM GILBERT C

4924 21 MW 06:35PM-09:35PM GILBERT C

4926 22 TTh 06:35PM-09:35PM GILBERT C

WLD 132 Gas Tungsten Arc Welding I (TIG) 3

Lab Fee: $36.00

Students will learn to apply the Gas Tungstenl Arc Welding (TIG) process on steel and aluminum. short circuit transfer mode . Prerequisite: WLD 122

4936 01 MTWTh 10:25AM-11:45AM MCDANIEL S

4938 02 ARR 12:30PM-03:00PM MCDANIEL S

4940 03W Sa 08:00AM-02:30PM GILBERT C

4942 21 MW 06:35PM-09:35PM GILBERT C

4944 22 TTh 06:35PM-09:35PM GILBERT C

WLD 152 Welding Layout I 3

Lab Fee: $36.00

Specialized welding drafting techniques: intersections and developments; patterns for geometric shapes used in cardboard, sheet metal, and structural shapes; fabrication and model construction. Prerequisite: MAP 101 or instructors permission

4960 01 MTW 03:15PM-04:30PM MCDANIEL S

4962 21 MW 04:45PM-06:30PM GILBERT C

WLD 190 Skill Improvement 1- 6

Lab Fee: $72.00

Variable Credit Lab Fees are calculated at the highest rate

Extra welding time and instruction to enhance student's welding skills and/or update their qualification for testing. This is an open enrollment course offered throughout each quarter. May be repeated for credit; graded on pass-fail basis. Prerequisite: instructor approval.

4980 01 ARR ARR MCDANIEL S

4982 02 ARR ARR MCDANIEL S

4984 03W Sa 08:00AM-02:30PM GILBERT C

4986 21 MW 06:35PM-09:35PM GILBERT C

4987 22 TTh 06:35PM-09:35PM GILBERT C

WLD 206 Welding Codes and Standards 4

Lab Fee: $48.00

Upon successful completion of the course the student will be able to follow codes to interpret their workmanship. Use procedure qualifications and performance qualifications. Use DT and NDT methods to inspect the students own weldments. Use visual inspection of welded structures. Prerequisite: WLD 205 or instructors permission

5006 01 MTWTh 08:00AM-09:05AM MCDANIEL S

WLD 212 Gas Metal Arc Welding II 3

Lab Fee: $36.00

Students will learn to apply both types of Flux core arc welding process on steel and perform Gas Metal Arc Welding on aluminum and stainless steel. Prerequisite: WLD 132

5026 01 MTWTh 10:25AM-11:45AM MCDANIEL S

5028 02W Sa 08:00AM-02:30PM GILBERT C

5030 21 MW 06:35PM-09:35PM GILBERT C

5032 22 TTh 06:35PM-09:35PM GILBERT C

WLD 241 Structural Weld Process I 6

Lab Fee: $72.00

This course focuses on student learning of structural connection mockups applying the Shielded Metal Arc and Flux Cored Arc Welding processes. Prerequisite: WLD 131 or instructor approval.

5040 01 MTWTh 12:30PM-03:00PM MCDANIEL S

5042 02W Sa 08:00AM-02:30PM GILBERT C

5044 21 MW 06:35PM-09:35PM GILBERT C

5046 22 TTh 06:35PM-09:35PM GILBERT C

WLD 242 Structural Welding I 3

Lab Fee: $36.00

An introductory course focusing on fabrication of structural weldments utilizing shielded metal arc welding and flux cored arc welding on structural connections. Prerequisite: WLD 212

5050 01 MTWTh 10:25AM-11:45AM MCDANIEL S

5052 02W Sa 08:00AM-02:30PM GILBERT C

5054 21 MW 06:35PM-09:35PM GILBERT C

5056 22 TTh 06:35PM-09:35PM GILBERT C

WLD 243 Structural Weld Process II 6

Lab Fee: $72.00

A structural welding course focusing on student application of Shielded Metal and Flux Cored Arc Welding processes on large outdoor structural weldments in accordance with drawings. Prerequisite: WLD 241 or instructor approval.

5060 01 MTWTh 12:30PM-03:00PM MCDANIEL S

5062 02W Sa 08:00AM-02:30PM GILBERT C

5064 21 MW 06:35PM-09:35PM GILBERT C

5066 22 TTh 06:35PM-09:35PM GILBERT C

WLD 244 Submerged Arc Welding 3

Lab Fee: $36.00

This course focuses on student learning of submerged arc welding process which entails an arc that takes place beneath a bed of granular flux. This is a high deposition industrial orientated welding process that is used to manufacture light to heavy weldments. Prerequisite: WLD 242 or instructor permission.

5070 01 MTWTh 10:25AM-11:45AM MCDANIEL S

5072 02W Sa 08:00AM-02:30PM GILBERT C

5074 21 MW 06:35PM-09:35PM GILBERT C

5076 22 TTh 06:35PM-09:35PM GILBERT C

WLD 245 Structural Weld Process III 6

Lab Fee: $72.00

A structural welding course focusing on student application of Shielded Metal and Flux Cored Arc Welding processes on large outdoor structural weldments in accordance with drawings. Prerequisite: WLD 241 or instructor approval.

5080 01 MTWTh 12:30PM-03:00PM MCDANIEL S

5082 02W Sa 08:00AM-02:30PM GILBERT C

5084 21 MW 06:35PM-09:35PM GILBERT C

5086 22 TTh 06:35PM-09:35PM GILBERT C

WLD 261 Production Weld Process I 6

Lab Fee: $72.00

An introductory course focusing on student learning of production welding techniques by applying the Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes. Prerequisite: WLD 131 or instructor approval.

5096	01	MTWTh	12:30PM-03:00PM	MCDANIEL S
5098	02W	Sa	08:00AM-02:30PM	GILBERT C
5100	21	MW	06:35PM-09:35PM	GILBERT C
5102	22	TTh	06:35PM-09:35PM	GILBERT C

WLD 262 Production Welding I 3

Lab Fee: $36.00

This course focuses on student learning of production welding within a shop setting. Prerequisite: WLD 212 or instructor permission

5106	01	MTWTh	10:25AM-11:45AM	MCDANIEL S
5108	02W	Sa	08:00AM-02:30PM	GILBERT C
5110	21	MW	06:35PM-09:35PM	GILBERT C
5112	22	TTh	06:35PM-09:35PM	GILBERT C

WLD 263 Production Weld Process II 6

Lab Fee: $72.00

An intermediate course that focuses on student learning of production welding techniques by applying the Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes on large parts in accordance with drawings. Prerequisite: WLD 261 or instructor approval.

5116	01	MTWTh	12:30PM-03:00PM	MCDANIEL S
5118	02W	Sa	08:00AM-02:30PM	GILBERT C
5119	03	MTWTh	10:25AM-11:45AM	MCDANIEL S
5120	21	MW	06:35PM-09:35PM	GILBERT C
5122	22	TTh	06:35PM-09:35PM	GILBERT C

WLD 264 Advanced Weld Process 3

Lab Fee: $36.00

An advanced course focusing on student learning of welding processes such as pulsed gas metal arc, pulsed gas tungsten arc, and welding on advanced materials i.e., titanium and inconel. Prerequisite: WLD 262 or instructors permission.

5126	01	MTWTh	10:25AM-11:45AM	MCDANIEL S
5128	02W	Sa	08:00AM-02:30PM	GILBERT C
5130	21	MW	06:35PM-09:35PM	GILBERT C

5132 22 TTh 06:35PM-09:35PM GILBERT C

WLD 265 Production Weld Process III 6

Lab Fee: $72.00

An advanced production welding course focusing on application of Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes on small parts in accordance with drawings. Parts will be welded in student manufactured fixtures. Prerequisite: WLD 263 or instructor approval.

5136 01 MTWTh 12:30PM-03:00PM MCDANIEL S

5138 02W Sa 08:00AM-02:30PM GILBERT C

5140 21 MW 06:35PM-09:35PM GILBERT C

5142 22 TTh 06:35PM-09:35PM GILBERT C

WLD 281 Pipe Welding I 3- 6

Lab Fee: $72.00

Variable Credit Lab Fees are calculated at the highest rate

Students will be introduced to pipe welding 1G, 2G, 5G, and 6G positions using E-6010 electrodes with schedule 60, 80, 100, 120 and various size pipes. These three credit courses may be repeated for credit up to six credits. Prerequisite: WLD 131

5150 01 MTWTh 12:30PM-03:00PM MCDANIEL S

5152 02W Sa 08:00AM-02:30PM GILBERT C

5153 21 MW 06:35PM-09:35PM GILBERT C

5155 22 TTh 06:35PM-09:35PM GILBERT C

WLD 282 Gas Tungsten Arc Welding II (TIG) 3

Lab Fee: $36.00

This course introduces students to carbon steel pipe welding in the 1G, 2G, 5G, and 6G positions using cup walk methods with 1/8" electrodes on various sizes of pipes. Prerequisite: WLD 212 or instructors permission.

5160 01 MTWTh 10:25AM-11:45AM MCDANIEL S

5162 02 MTWTh 12:30PM-03:00PM MCDANIEL S

5163 03W Sa 08:00AM-02:30PM GILBERT C

5164 21 MW 06:35PM-09:35PM GILBERT C

5165 22 TTh 06:35PM-09:35PM GILBERT C

WLD 283 Pipe Welding II 3- 6

Lab Fee: $72.00

Variable Credit Lab Fees are calculated at the highest rate

Students will enhance carbon steel pipe welding in 1G, 2G, 5G, and 6G positions using E-6010 and E-7018 electrodes with schedule 60, 80, 100 and 120 pipes and various other sizes of pipes. These three credit courses may be repeated for credit up to six credits. Prerequisite: WLD 281

5170	01	MTWTh	12:30PM-03:00PM	MCDANIEL S
5172	02W	Sa	08:00AM-02:30PM	GILBERT C
5173	21	MW	06:35PM-09:35PM	GILBERT C
5174	22	TTh	06:35PM-09:35PM	GILBERT C

WLD 284 Gas Tungsten Arc Welding (TIG) III 3

Lab Fee: $36.00

Students will gain advanced skills on carbon steel pipe in the 2G, 5G, 6G positions, carbon steel pipe with stainless steel rods, and stainless steel pipe in the 2G, 5G, and 6G positions. Prerequisite: WLD 282 or instructors permission

5180	01	MTWTh	10:25AM-11:45AM	MCDANIEL S
5182	02W	Sa	08:00AM-02:30PM	GILBERT C
5183	21	MW	06:35PM-09:35PM	GILBERT C
5184	22	TTh	06:35PM-09:35PM	GILBERT C

WLD 285 Pipe Welding III 3- 6

Lab Fee: $72.00

Variable Credit Lab Fees are calculated at the highest rate

This course focuses on pipe welding 1G, 2G, 5G, and 6G positions using E-6010 and E-7018 rods and a combination of G.T.A.W and S.M.A.W. process with schedule 40, 60, 80, 100, 120 and various other sizes of pipes. Prerequisite: WLD 283

5190	01	MTWTh	12:30PM-03:00PM	MCDANIEL S
5192	02W	Sa	08:00AM-02:30PM	GILBERT C
5193	21	MW	06:35PM-09:35PM	GILBERT C
5194	22	TTh	06:35PM-09:35PM	GILBERT C
5195	03	MTWTh	10:25AM-11:45AM	MCDANIEL S

WLD 290 Skill Improvement II 1- 6

Lab Fee: $72.00

Variable Credit Lab Fees are calculated at the highest rate

Extra welding time and instruction to enhance student's welding skills and/or update their qualification for testing. This is an open enrollment course offered throughout each quarter. May be repeated for credit; graded on pass-fail basis. Prerequisite: instructor approval.

5200	01	MTWTh	10:25AM-11:45AM	MCDANIEL S
5202	02	MTWTh	12:30PM-03:00PM	MCDANIEL S
5204	03W	Sa	08:00AM-02:30PM	GILBERT C
5206	21	MW	06:35PM-09:35PM	GILBERT C
5208	22	TTh	06:35PM-09:35PM	GILBERT C

WLD 295 Work Based Learning 1- 6

A supervised work experience in the welding technology field to enhance the application of classroom instruction and skills and/or area of specialization approved by the program instructor. May be repeated up to twelve (12) credits. Prerequisite(s): Instructor approval and concurrent enrollment in WLD 297.

5210	01	ARR	ARR	MCDANIEL S

WLD 297 Work Based Learning Seminar 1

Feedback and discussion to integrate and relate Work Based Learning and classroom based instruction. Work ethic, leadership, safety and occupational health, environmental issues, and other student generated topics are examined. May be repeated up to six (6) credits. Co-requisite: WLD 295.

5216	01	ARR	ARR	MCDANIEL S